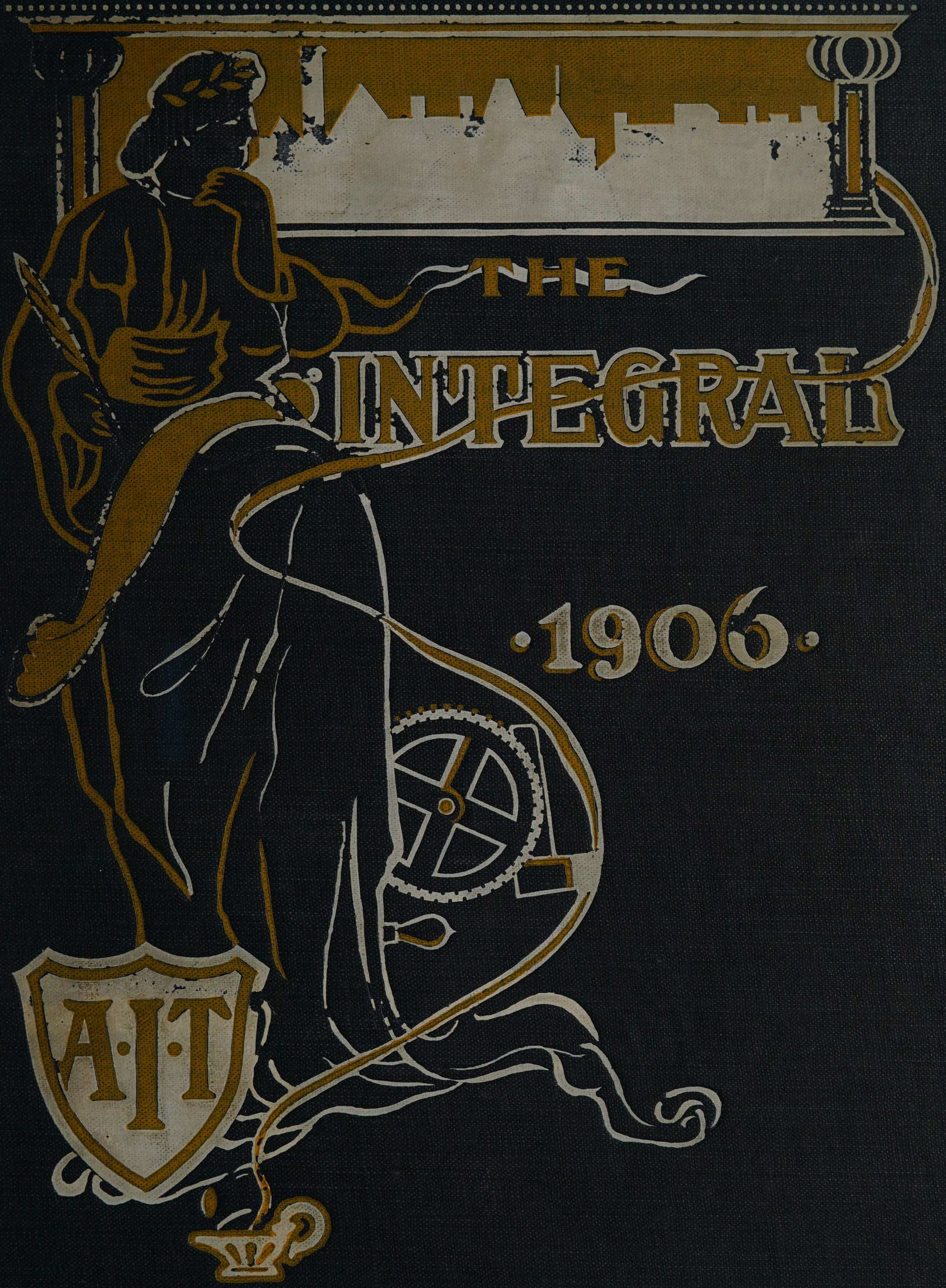
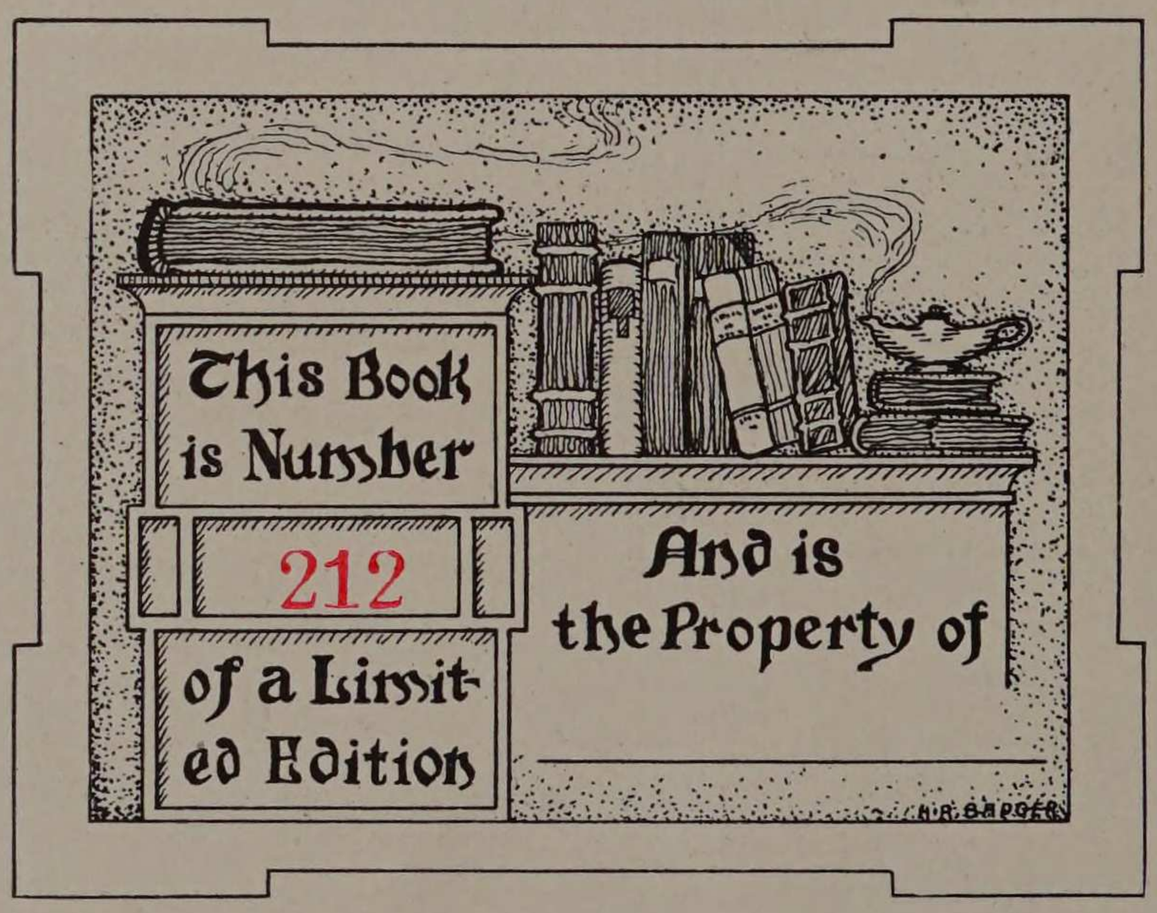

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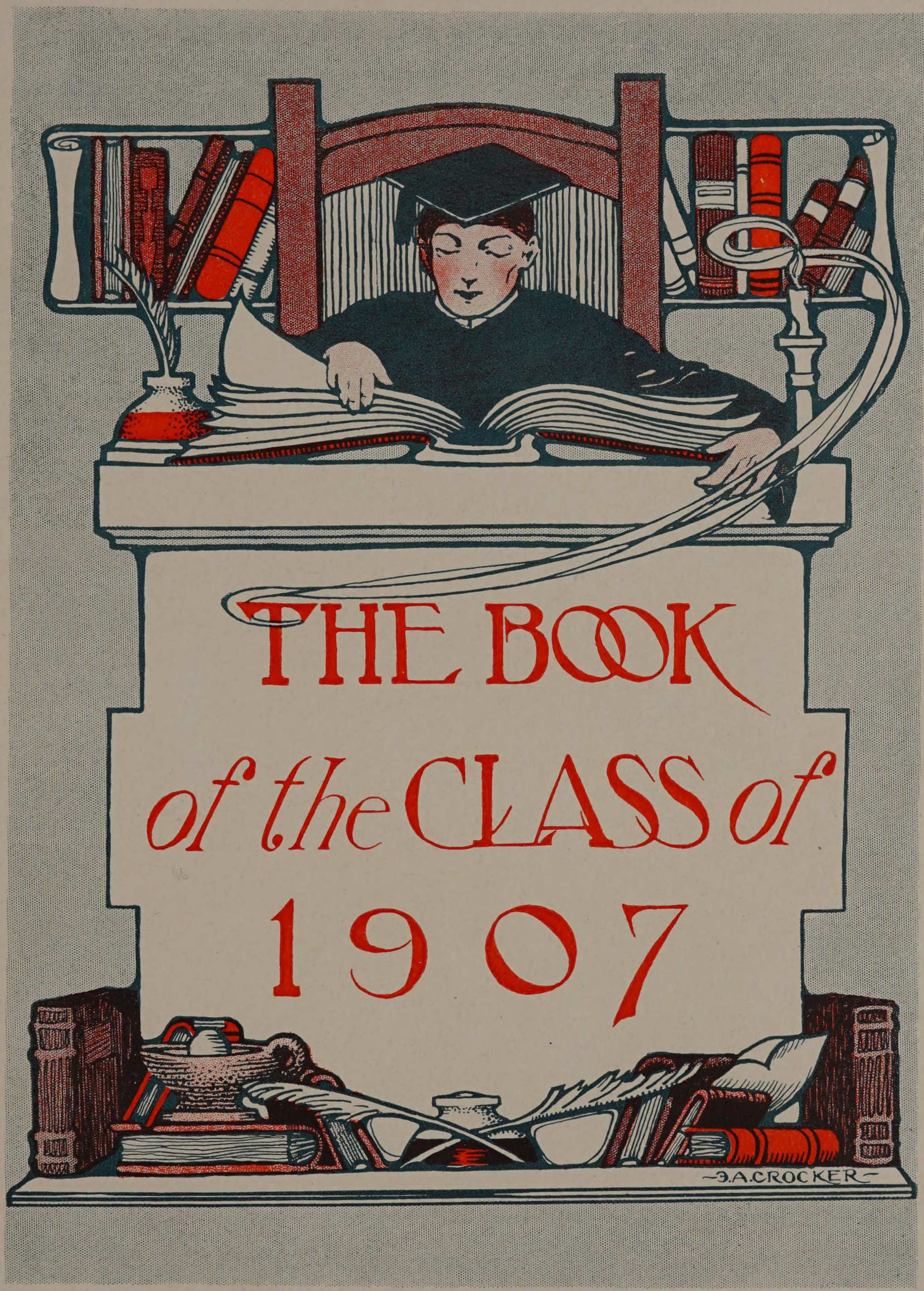
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INTEGRAL



THE BOOK

of the CLASS of

1907

~J.A.CROCKER~

DEDICATION...

TO THE MEMORY

OF

Louis Raymond Levings

THIS BOOK IS

AFFECTIONATELY DEDICATED



L R Levings

DEDICATION...

TO THE MEMORY

OF

Louis Raymond Levings

THIS BOOK IS

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"IT was perfectly characteristic of Louis Levings that he should lose his life as he was climbing upward. He vanished only from our earthly sight as he was ascending a high and great mountain in the West. His mind was rich, courageous, large in possibilities. I do not wonder that his intrepid feet thrilled with that eager and valorous manhood which sometimes makes us all too speculative, too willing to dare. If it was a mistake it was not a mistake of a small or weak soul. A searcher after the heights, he loved dangerous places. He knew something of the fine air that comes into a man when he gets above the ordinary. He loved that vision which dawns upon him when he has taken a path into the unknown and unmapped destiny."

—*President Gunsaulus,*
Assembly in the Mission,
September 20, 1905.

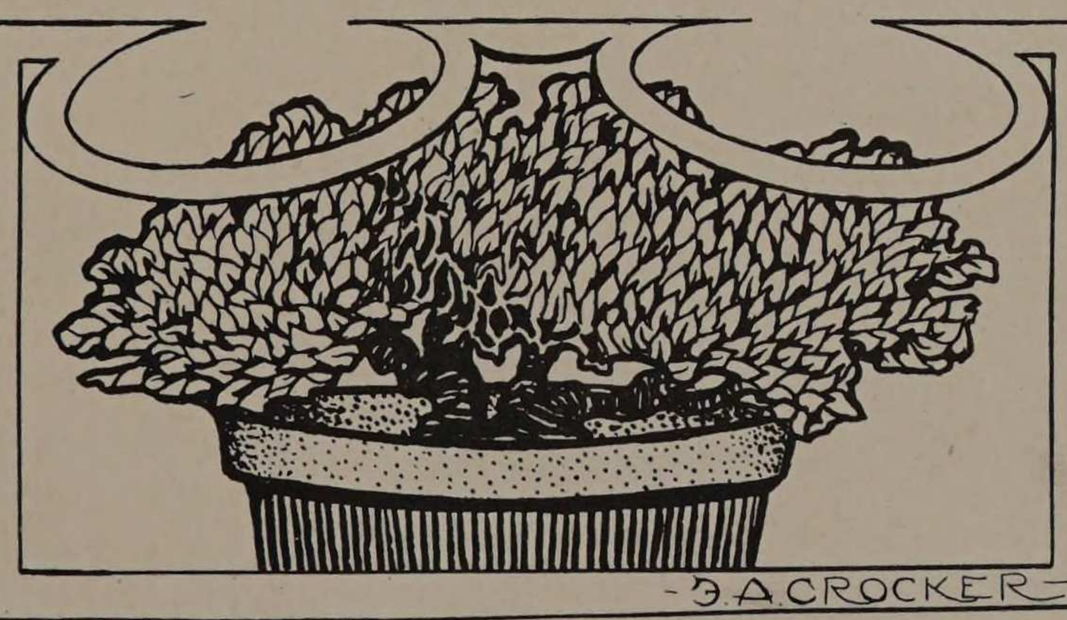
GREETING

AS A FOREWORD to the eighth volume of THE INTEGRAL we extend to all Armour men our most cheerful greeting.

The year just past has had for us its common interests and its joyous fellowships. It has been to portray this in its best and most lasting phases that we have striven. Our aim has been to record the happenings of this year for the Undergraduate of Armour as well as for the Graduate. However, we have especially striven for the former—so soon to pass out into the world of the Alumni—that he may then have a souvenir, replete with memories of his days at college—those cardinal days of lasting friendships and hallowed associations—days that come into our lives but once.

For ourselves, we feel that it has been our great privilege to add to the history of fair Armour one year of its life—in this volume, "The Book of the Class of 1907." Our trust has been high and we have given it our dearest thought and our sincerest enterprise, that its fulfillment might reach a height becoming of so great a trust.

Thus, we now present to you, men of Armour, you men who love the yellow and black, who are loyal to the standard of old A. I. T.—this eighth volume of THE INTEGRAL. Treat it kindly, for it has been our honored trust and its fulfillment represents our sacred best.

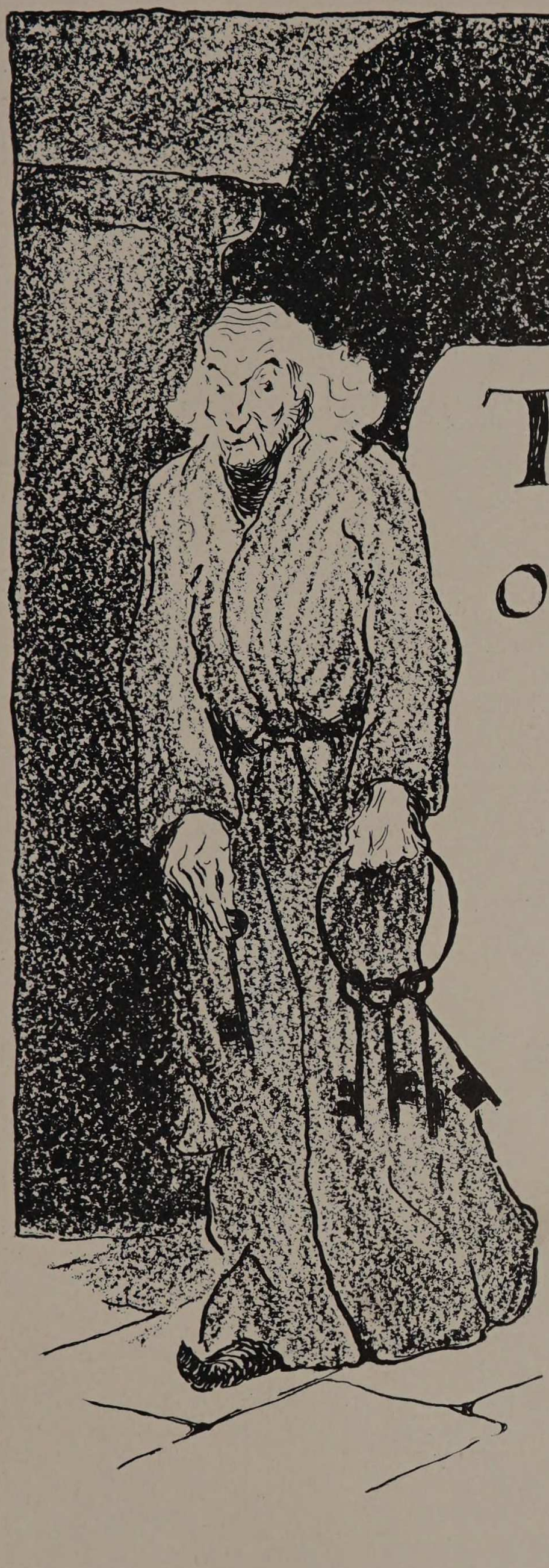




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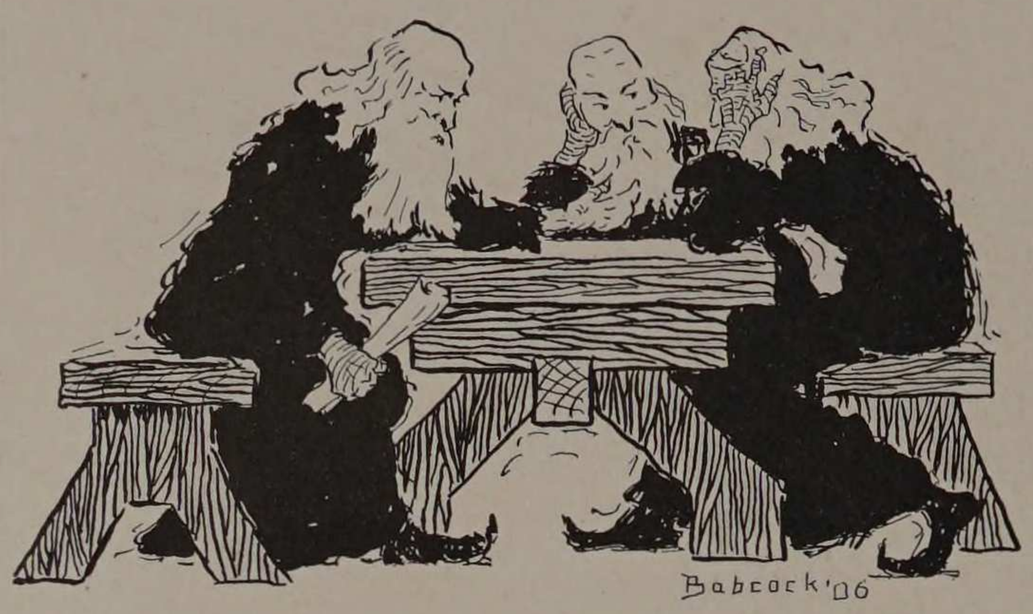
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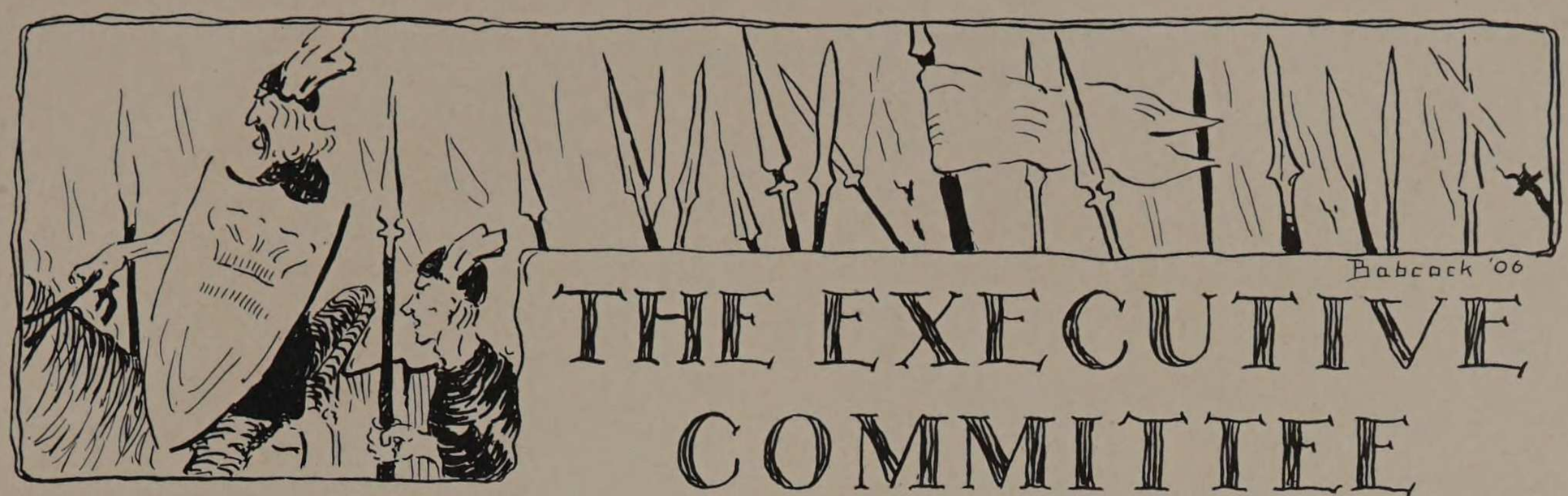
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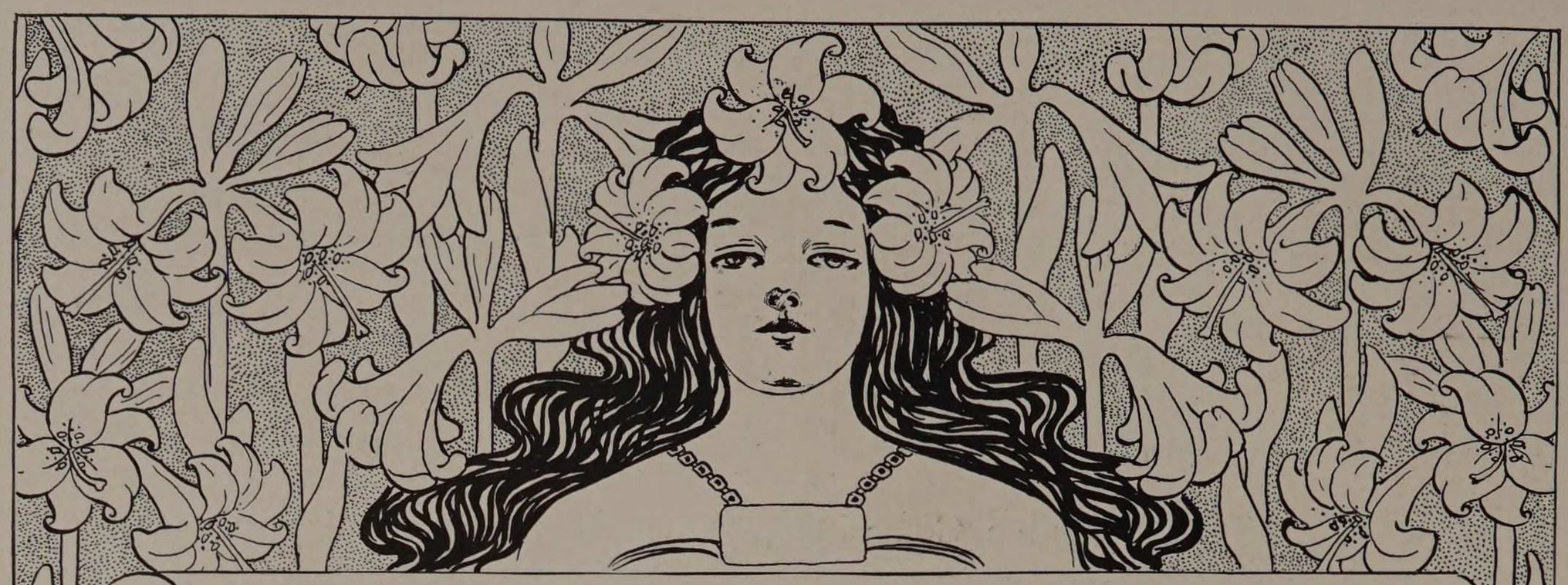
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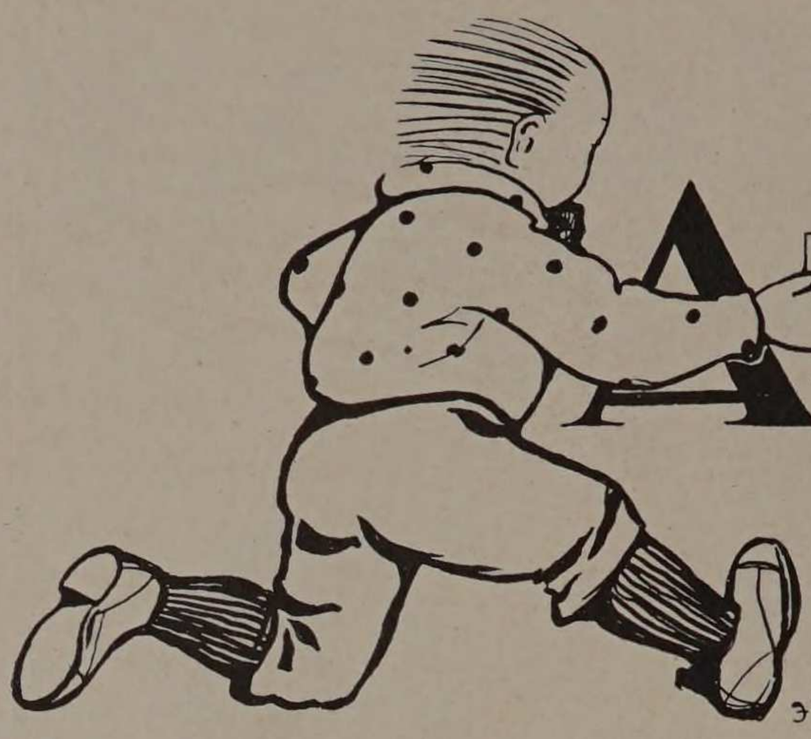
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Margaret E. Grafius	*Assistant in the Library*
Henry George Clasen	*Record Clerk*
Carl R. Hammer	*Assistant to Registrar*
Robert Martin	*Assistant to Registrar*
Jane L. Forrest	*Stenographer in the Office of the Deans*
Joseph W. Howard	*Assistant in the Office of the Deans*
Norma G. Erickson	*Stenographer in the Office of the Comptroller*
Charles Stridiron	*Assistant in the Office of the President*
Ralph Emerson Riley	*Assistant in the Gymnasium*
Emily Nichols	*Assistant in the Library*
Claud D. Bowman	*Electrician*
George Hermansen	*Assistant in the Mechanical Laboratories*
William Toranges	*Assistant in the Mechanical Laboratories*
Sam A. Todd	*Assistant in the Electrical Laboratories*
Thomas McGrath	*Assistant in the Foundry*
Michael Maloney	*Assistant in the Forge Shop*
Edward Prosser	*Assistant in the Pattern Shop*
A. E. Dean	*Chemical Store Room Keeper*
L. Hoffman	*Assistant in the Chemical Store Room*



HISTORY

THE germs, from which the ideas for the Armour Institute of Technology originally emanated, were first cultured in the basement of the Mission Building by one whom we all esteem and respect, Mrs. Julia A. Beveridge, our Librarian. The Armour Mission, which was founded by Mr. Joseph Armour, a brother of Philip D. Armour, first opened its doors on December 6, 1886. Mrs. Beveridge from the first was one of the Mission's most interested workers, and her first year's experience in the Sunday School convinced her that more could be accomplished for the good and betterment of the pupils than was being done for them in the short service which was held on the first day of each week. So, in February, 1887, she enlisted the services of five young men from the Chicago Manual Training School and organized classes in wood-carving, clay-modeling, tile-making, and freehand and mechanical drawing and designing. These classes met each Saturday morning. Other classes were also started in dress-cutting and millinery for the girls, which met on each Saturday afternoon. Before the close of the year there were four hundred boys and three hundred and fifty girls attending these Saturday classes.

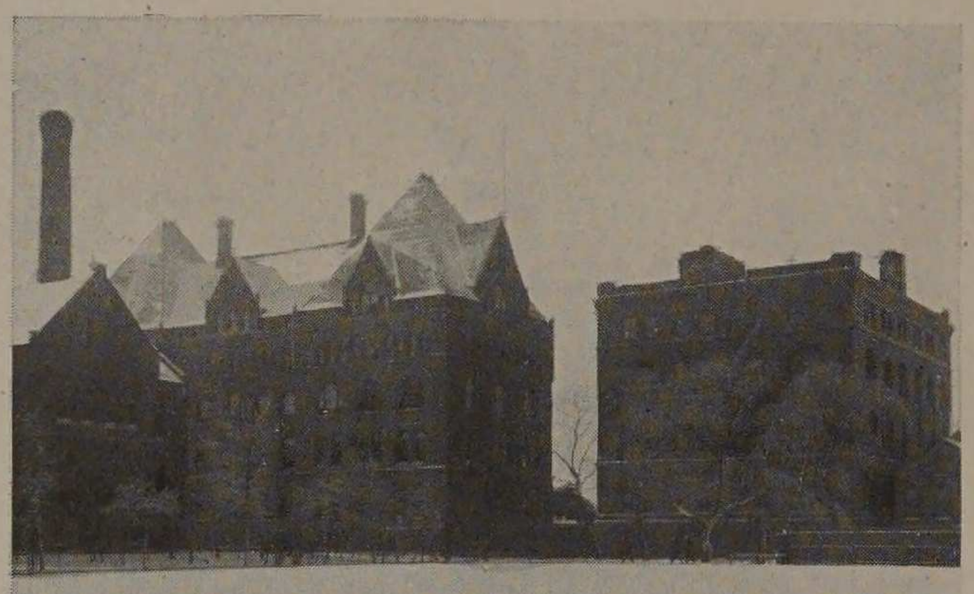


THE MAIN HALL

Meanwhile, Mr. Philip D. Armour became deeply interested in this part of the work of the Mission and decided that it should be extended to cover distinct educational lines, aiding young men and women to better their condition in life. With this object in view, he and Dr. Gunsaulus, who was then pastor of Plymouth Church, at 26th Street and Michigan Avenue, of which Mr. Armour had been an attendant for many years, made a tour of the

East to investigate the methods and the scope of schools doing work of a character similar to that which Mr. Armour wished to provide for the young people of the West. Upon their return, a Board of Trustees was appointed and it was decided to erect a building at the southwest corner of Thirty-third Street and Armour Avenue and to provide facilities for the education of both young men and women.

The Institute building was completed and the first classes organized in September, 1893, with Dr. F. W. Gunsaulus as President. The first Board of Trustees consisted of Philip D. Armour, J. Ogden Armour, John C. Black, and William J. Campbell. Mr. Campbell died March 4, 1896, and his place on the Board was filled by the appointment of President F. W. Gunsaulus. In 1896, Mr. Simeon B. Armour became a trustee and the composition of the Board remained unchanged for two years. The death of Mr. Simeon B. Armour and Mr. Philip D. Armour, Jr., led to the appointment of Mrs. Philip D. Armour, Mrs. Philip D. Armour, Jr., and Mrs. J. Ogden Armour. On January 6, 1901, Mr. Philip D. Armour died and the vacancy on the Board was filled by the appointment of Mr. Simeon B. Chapin. Mr. P. A. Valentine was appointed a member of the Board in 1904.



WINTER VIEW, FROM OGDEN FIELD

At the opening, in 1903, the organization of the Institute consisted of:

(1st) The Technical College, which included courses in Mechanical Engineering, Electrical Engineering, Library Economy, and in connection with the Art Institute, Architecture;

(2nd) The Scientific Academy;

(3rd) The Associated Departments of Domestic Arts and Sciences, Commerce, Music, and Kindergarten Normal Training.

In 1896 the Department of Library Science removed to the University of Illinois. During the same year, the Department of Commerce was discontinued and the course in Civil Engineering added to the Technical College. In 1900, the Kindergarten Department, and in 1901 the Department of Domestic Arts and Sciences and the Department of Music were discontinued and organized as distinct schools in the center of the city.

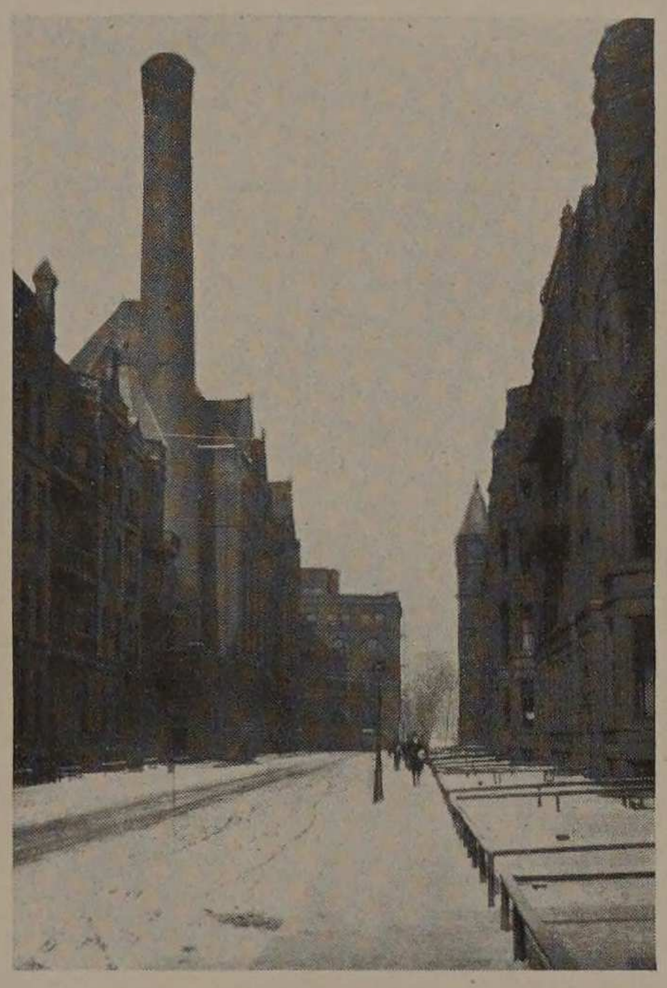
In 1901, the Trustees decided that the Scientific Academy should no longer admit girls, but that those in attendance should be allowed to complete the courses they had begun. In September, 1901, the course in Chem-

ical Engineering was added to the College courses, and the name Technical College changed to College of Engineering.

At the beginning of the college year 1902-3, evening classes in engineering were organized which enabled the Institute to extend its influence to large classes of men not hitherto reached who found it impossible to attend during the day. That this venture has proved a success is evidenced by the fact that about 2,500 students have enrolled since October, 1902.

The erection of Machinery Hall in 1902 marked a new era in the growth and development of the Institute. Hitherto the shops had been located in the Main Building. With the steady increase in the number of students, the accommodations became inadequate so that a new building devoted entirely to workshop instruction became an imperative need. Mrs. P. D. Armour generously bore the expense of the building and Mr. J. Ogden Armour provided the new equipment. The building is a model of its kind and the machinery is as complete and modern as may be found in any similar shops of the country. Ogden Field, the recent gift of Mr. J. Ogden Armour, provides excellent facilities for athletics and outdoor sports, and its benefits have far exceeded the expectations of both faculty and students.

The history of Armour Institute of Technology is a story of the attempt to meet the needs of technical education in a large city. At the beginning, Mr. Armour had no clear idea of what the scope of the school should be. Matters of detail were left to President Gunsaulus. Of one thing only Mr. Armour was sure; he wanted to assist young men and women in developing their natural abilities. The early plans aimed at providing such technical education as could not be obtained elsewhere in Chicago. Following this idea the Departments of Library Science and Domestic Arts and Sciences were organized. At this time a school of library science was a novelty, at least in the West. However, after two years of work, its success was so marked that the University of Illinois adopted it as an integral part of the University work.

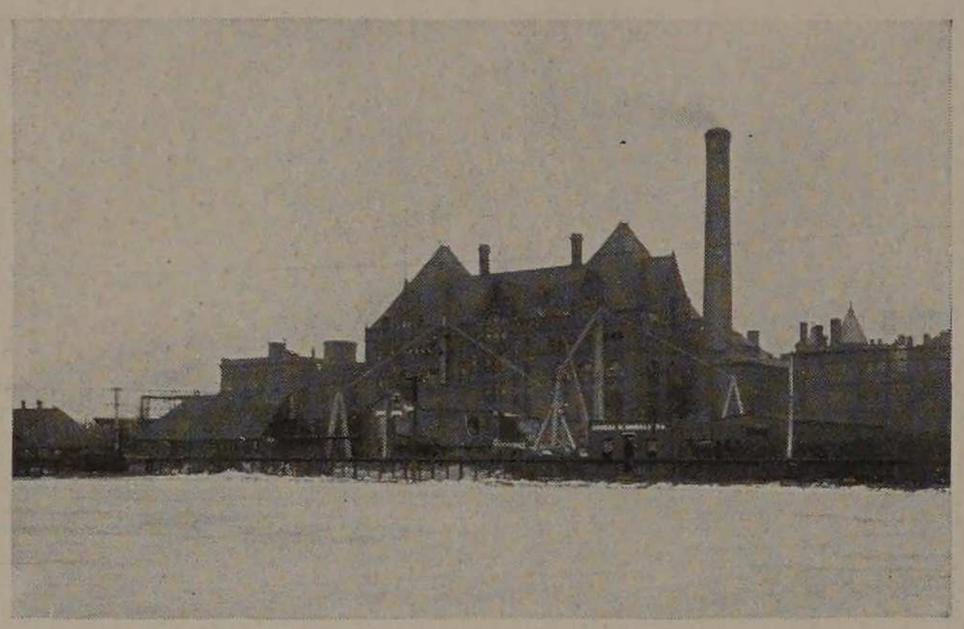


WINTER VIEW DOWN ARMOUR AVENUE

When classes in cooking, dressmaking, millinery and sewing were organized, this venture was also regarded as exceedingly novel. Up to that

time no opportunities had been offered for young women to study these subjects in a regularly organized institution of learning. The success of this work was pronounced from the beginning, and it was not long before other institutions started departments along similar lines. Finally, when the value of such instruction had been fully proven, it was deemed wise for this department to continue as a distinct school in the center of the business quarter of the city.

This characteristic of the Institute in its early years—a willingness to experiment with new educational ideas and to show their real value—was supplemented by a distinct tendency towards engineering work for men and boys only.



WINTER VIEW FROM WEBSTER FIELD

Thus, after many vicissitudes, after being an experimental station for new lines of technical instruction, after starting fresh lines of work for others to continue, after dropping lines of work which it formerly fostered, the Institute, after eight years of life, finally found its true mission—and that for which it stands today—a distinct engineering school for men.

THE PAST YEAR

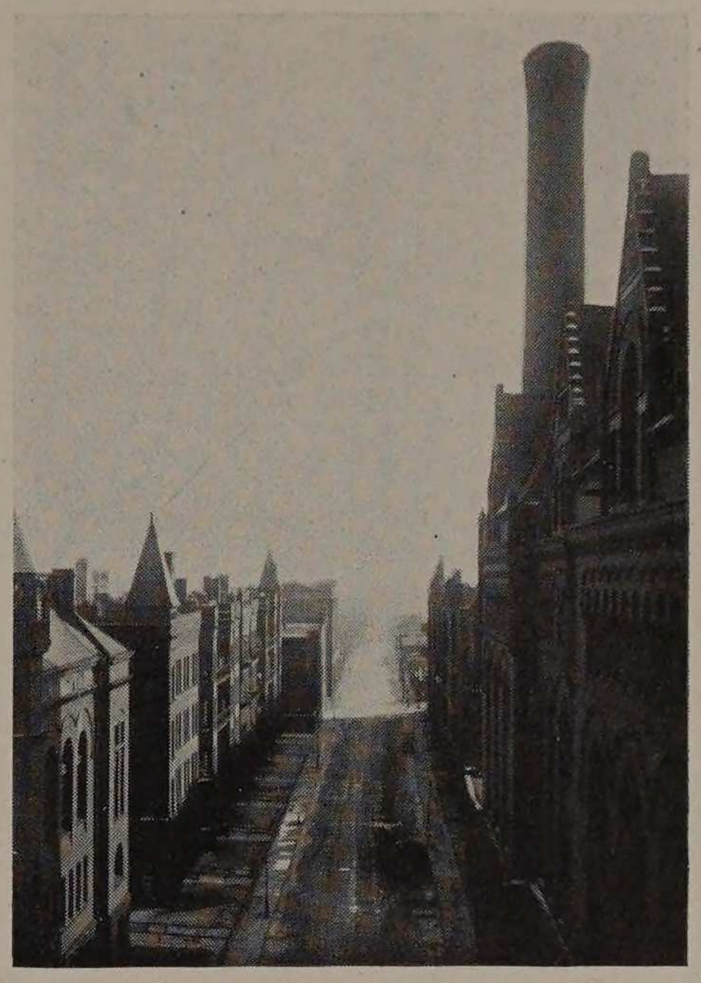
The preceding article gives in a general way the main events affecting the Institute, which have been crowded into the fifteen years since its founding. These events have each contributed their share toward the shaping of "A. I. T.'s" career and destiny. Especially has the past year played an important part in this onward march. The attendance has increased and the territory represented has enlarged. Various changes—all of them progressive—have been made in the different departments of the school. On March 1st, 1906, the Institute withdrew from the relations which had for three years existed between it and the American School of Correspondence. This change was greeted most heartily by both Alumni and Under-graduates. A more detailed account of the changes which the past year has brought about, will be given in the following pages.

MECHANICAL DEPARTMENT

In this department during the past year one instructor has been added in the Foundry and one in the Forge Shop; one mechanic in the Laboratories and one pattern maker in the Pattern Shop. Mr. Peterson has taken Mr. Ritchey's place, and Messrs. Libby and Anderson have taken the posi-

tions formerly held by Messrs. Cook and Price. Mr. Robinson has taken the position formerly held by Mr. Tibbets.

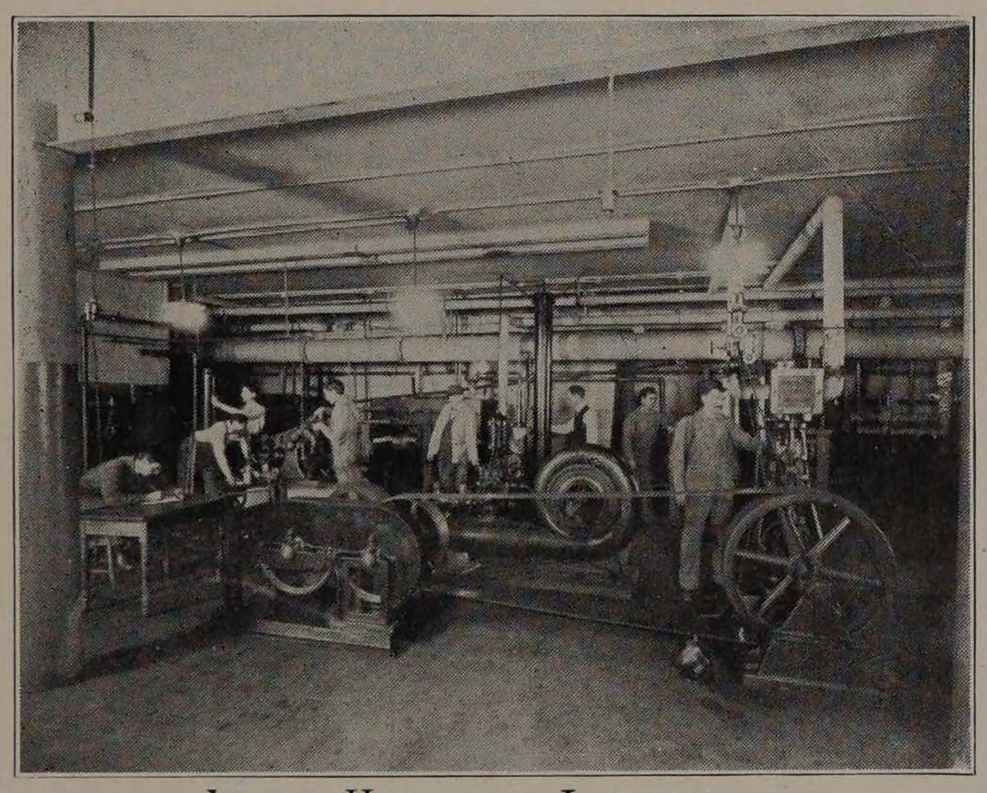
The equipment of the Mechanical Department has been, since April, 1905, increased by: A 40 B. H. P. Kerr steam turbine, direct connected to a multi-stage centrifugal pump; a 50,000 pound Riehle belt testing machine; an 8x10 Phoenix steam engine; a 16 inch Hendey-Norton motor-driven lathe with an 8 foot bed; a 16 inch Lodge and Shipley motor driven lathe with a 10 foot bed; a Gisholt motor-driven Universal tool grinder; a 10 inch Bement-Miles-Pond slotter; a 400 pound Bement-Miles-Pond steam hammer; two 14 inch by 8 feet Le Blond engine lathes; an Arcade molding machine; a No. 1 Emerson power scale; and a 10 H. P. Webber transmission dynamometer.



"THE GORGE," FROM MACHINERY HALL

ELECTRICAL DEPARTMENT

The instructional staff of this department has not been changed in the past year; however, extensive additions have been made to its equipment. The more important of these are: two 15 H. P. 110 volt Interpole motors with variable speed ratio of 4:1; one Holtzer–Cabot balancer set, consisting of two 5 K. W. 110 Volt compound wound D. C. machines with slip ring connections for A. C. operation; one Westinghouse 100,000 Volt, oil-immersed electrostatic voltmeter; one General Electric 3-vibrator oscillograph with tracing table, photographic and projection outfits; and one Du-Bois precision magnetic balance made by Siemens and Halske, Germany.



IN THE HYDRAULIC LABORATORY

In addition to the above a number of smaller pieces of apparatus, consisting of several standard resistances by Wolff, a Leeds & Northrup potentiometer, also a Wolff potentiometer, a Thomson double bridge apparatus by Wolff and one by Hartmann and Braun, a direct reading phase meter and a direct reading ohmmeter by Hartmann and Braun, also a number



CIVIL DRAFTING ROOM

of frequency meters by the same firm. In the line of photometric apparatus, the department has acquired a rotating lamp device from Queen & Co., a flicker-photometer from Nalder Brothers, a Harcourt pentane standard and a Hefner standard lamp from Kruss and a Lummer-Brodhun contrast screen.

Aside from the above, a number of smaller devices have been constructed by the mechanicians for the use of the department.

CIVIL ENGINEERING

In the curriculum of this department some important changes have been made during the past year. For one thing, the course of study was arranged under three heads—first, General Engineering; second, Railway and Geodetic Engineering, and third, Hydraulic and Sanitary Engineering. The tendency of the times seems to encourage a certain amount of specialization in engineering work, and it is thought that the arrangement as outlined above will best permit of this and at the same time give the student a thorough general training in the fundamental principles. At the same time it has the effect of the elective system, the students in any one course being permitted to select subjects from any of the others.

Another important change in the curriculum is the requirement that the Sophomores in the Civil Engineering Department shall take a course of six weeks field practice during the summer vacation. This will be provided for by establishing a camp for the summer school in some satisfactory location where the topographical features will be such as to enable the students to become thoroughly familiar with the use of the engineering instruments in all classes of field work. The work will be under the direction of one of the instructors in the department. All of the engineering schools of the country are attempting to emphasize the engineering field practice and to thoroughly drill their students in the handling of the instruments, and by concentrating efforts upon this subject during the six weeks of the summer vacation, the results must be more satisfactory than when the work is scattered over longer periods of time.

The equipment for the present year has been increased by the addition of a transit and two dumpy levels and there has also been ordered from Bausch and Lomb-Saegmuller Company of Rochester, N. Y., a precise geodetic level. Besides these a number of small instruments have been

added to the equipment, so that at the present time the equipment of the department is abreast with any of the engineering schools and is probably much superior to the majority of them.

CHEMICAL ENGINEERING

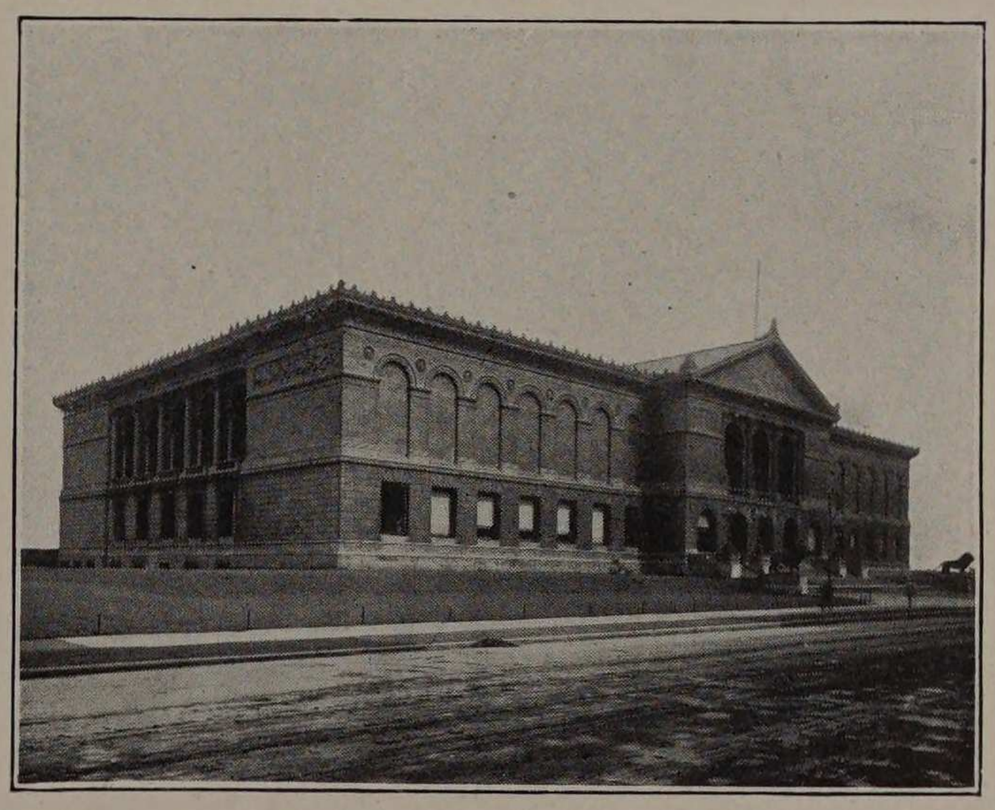
The main changes in the course of study of this department during the past year were in the direction of concentrating the attention of the student on a subject for several hours per week for one term, rather than having the subject under consideration for a few hours per week throughout the year. The results of this have been most satisfactory. The instructional staff has been increased by the addition of Mr. W. O. Walker as Assistant in General and Analytical Chemistry. Mr. E. E. Jones has taken the position formerly occupied by Mr. J. M. Large, who resigned. Laboratory work, in many branches of the department, has been expedited by additional equipment in the form of complete apparatus for the analysis of Fuel and Illuminating Gas. Considerable Platinum Ware has been obtained as well as Crushers and Pulverizers for Ores.

ARCHITECTURE

To the instructors in this department has been added Mr. T. E. Talmadge, who won the European Scholarship of the Chicago Architectural Sketch Club, in 1904. The course of study has been changed, introducing Physics into the work for the Junior Year. The American Traveling Scholarship was awarded to Mr. J. C. Johnson, '06. This is the first time this prize has been awarded. Its value is two hundred and fifty dollars, and its recipient is to spend at least two months traveling through Eastern cities, studying and sketching. Through the generosity of the Art Institute, many beautiful books and photographs, bearing on Architectural subjects, have been obtained during the past year.

FIRE PROTECTION ENGINEERING

At the beginning of the present school year, Mr. J. B. Finnegan was engaged as Instructor in this department. The Fire Protection Curriculum has been changed in a few respects; Electrical Machinery has been changed from the Junior to the Senior year, as has also the work in Chemistry of Fires. The latter course has been materially strengthened and extended by the introduction of a new text-book, not previously available. A course



CHICAGO ART INSTITUTE

in Machine Tool Work has been added to the schedule of the Sophomore year.

The new Underwriters' Laboratories, at 208 East Ohio Street, have been completed during the past year. The building is of fire-proof construction throughout, one hundred by fifty feet, on the ground floor, and fifty by fifty feet, on the second and third stories. The construction is mostly of hollow terra-cotta tile and steel. The wearing floors are of concrete laid over the tile.

The main floor is devoted to general experimental work, the rear portion, fifty by fifty feet, being pitched toward the center and provided with a drain. This rear portion is used for most tests in which water, in considerable quantity, is used. The basement contains, beside the heating apparatus and cold storage, a suction tank for the fire pump on the main floor, a room equipped for tests of Automatic Dry Pipe and Alarm Valves, used in automatic sprinkler systems. The second floor is given up entirely to offices, and the third floor contains the Electrical and Chemical Laboratories, a dark-room, and some storage space. A yard, one hundred by fifty feet, adjoins the building on the East, and is used for Fire Tests, not practicable within doors.

The new building provides, in all, practically twice the floor space which was available in the old quarters, and numerous branches of work, which were, of necessity, slighted at the former location, are now amply provided for. For out-door work about seventy-five per cent more area is now provided, with prospects of further increase.

THE LIBRARY



THE LIBRARY

The year 1906 brings the thirteenth Anniversary of the founding of the Armour Institute of Technology Library, which has grown from seven thousand volumes, in 1893, to twenty thousand volumes, at the present time. Periodicals and serials, currently received, number one hundred twenty-eight. A vertical file has been placed in the office to render more useful the seventy-five Bibliographies, which have been made on Engineering subjects. These Bibliographies are in alphabetical order and may be used at any time.

A noticeable feature, in the past year's history of the Library, has been

a decided increase in the use of books and bound periodicals. Gifts have been received from President Gunsaulus, Dean Raymond, Doctor Campbell, Professor Leigh, Professor MacFarland, Carnegie Steel Company,

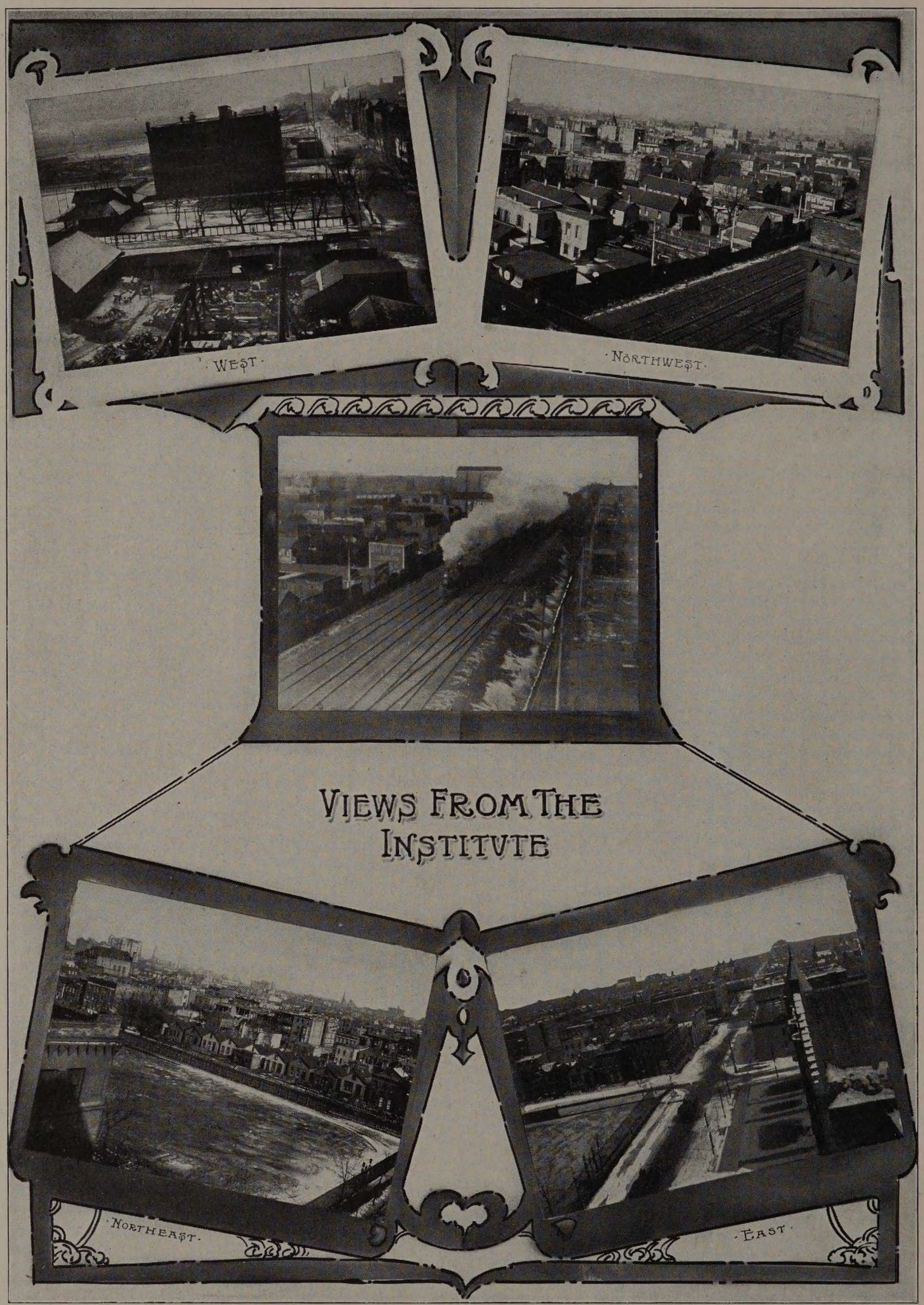


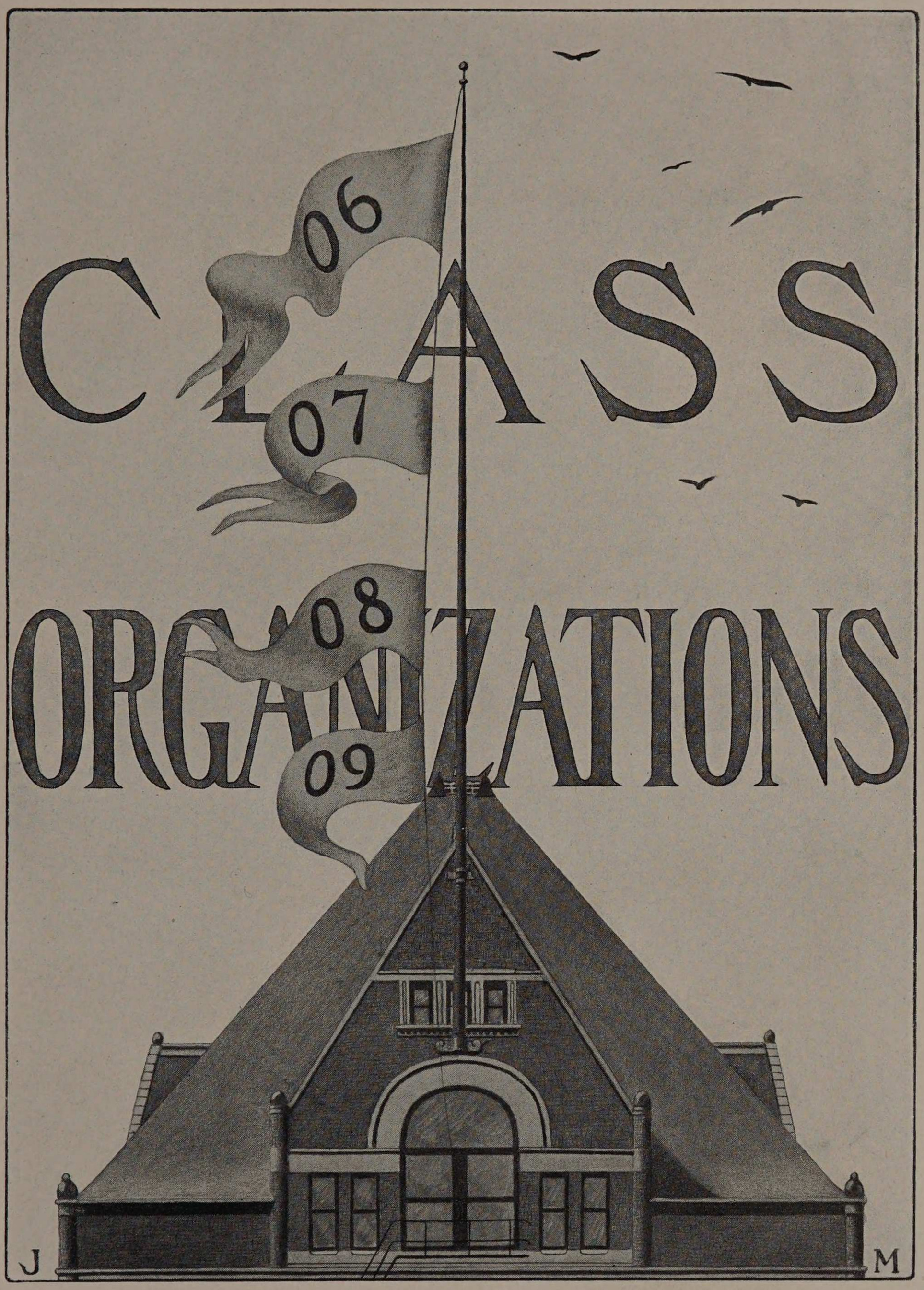
MISS MARGARET GRAFIUS · MRS JULIA A BEVERIDGE · MISS EMILY NICHOLS ·

Pennsylvania Railroad, Illinois Central Railroad, Smithsonian Institute, and a number of other Institutions and organizations.

The subjects of Bibliographies prepared during the past year are as follows:

Auxiliaries
Beams, Flexure of
Bearing Metals
Boiler Feed Pumps
Boiler Feed Water
Boilers
Boosters
Borings
Brake Pulley
Chimneys
Coal and Ash Handling Machinery
Coal Storage
Coal Washing
Condensers and Cooling Towers
Dynamo and Motor Design
Electric Wiring
Entropy Analysis
Filtration Plant
—Sewage Disposal
Filtration Plant—
Water Supply System
Gas Engine Indicator
Gas Furnaces
Lubricating Oils
Magnetic Iron and Steel
Masonry Dam Construction
Mechanical Draft
Micro Structure of Stay Bolt Iron
Moulding Sands
Oil Burners
Oil Fuel
Oil Furnaces
Oscillographs
Pneumatic Tubes
—Postal Service
Powdered Fuel
Power, Cost of
Pump Tests
Recalescence
Reheaters—Receivers
Speaking Arc
Spectro-Photometry
Stand Pipes
Starch
Steam Engine Indicators
Steam Engine Regulators
Steam Engine Tests
Steam Jackets
Steam Turbines
Stokers
Storage Battery
Sub-stations
Transformers
Valves
Water Pumping Stations
Water-works Systems
White Lead Manufacture
Wire
Wood Pulp


WEST
NORTHWEST
VIEWS FROM THE INSTITUTE
NORTHEAST
EAST


CLASS
ORGANIZATIONS
06
07
08
09
J
M

The College of Engineering

of

Armour Institute *of* Technology

33rd Street *and* Armour Avenue

Chicago, Illinois

Founded 1892

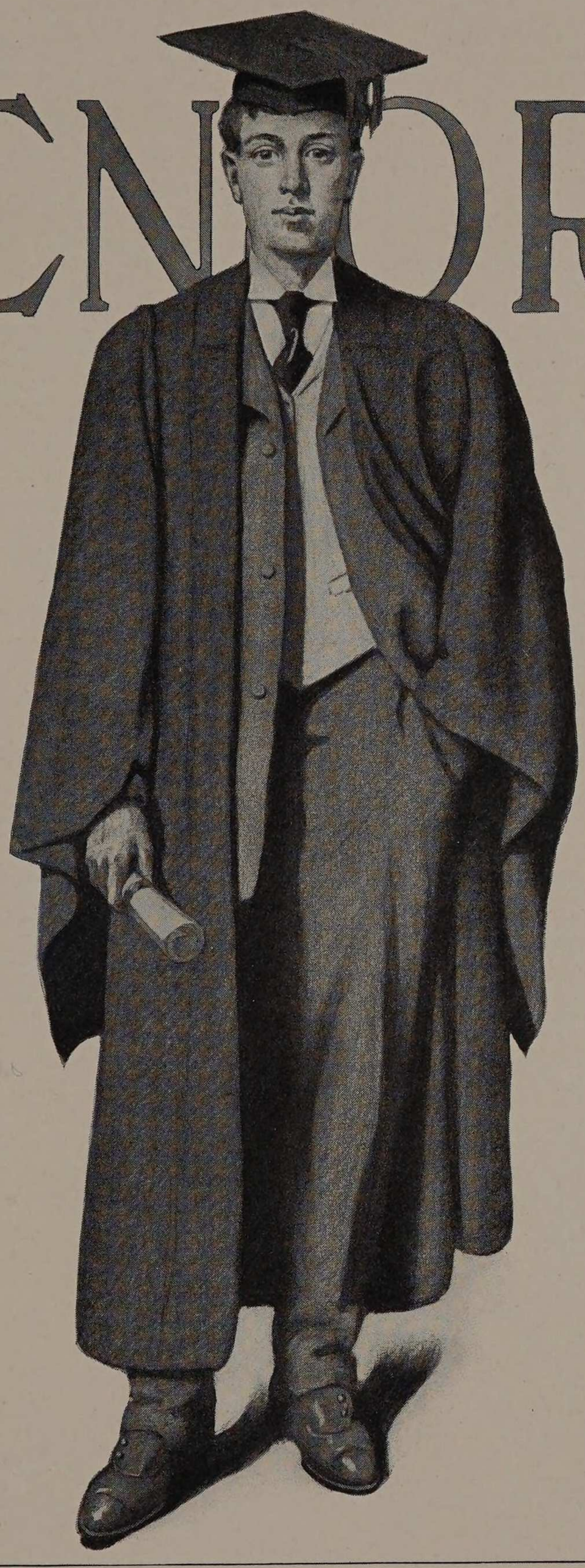
by

Philip Danforth Armour

COLORS: *Yellow and Black*

YELL: "*Arch! Mech!*
Civ! Elec!
Rah! Rah!
Armour Tech."

SENIORS



JOHN MORTON

The Class
of
Nineteen Hundred and Six

SENIORS

COLORS: *Blue and Gold*

YELL: "*Rixey! Ray! Rah! Rix!*
Armour Tech! '06"

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PHILIP HARRINGTON, *Vice-President*
HARRY L. STRUBE, *Secretary*
LEE ROY ROSS, *Treasurer*
EUGENE DANIEL MEYER, *Sergeant-at-Arms*

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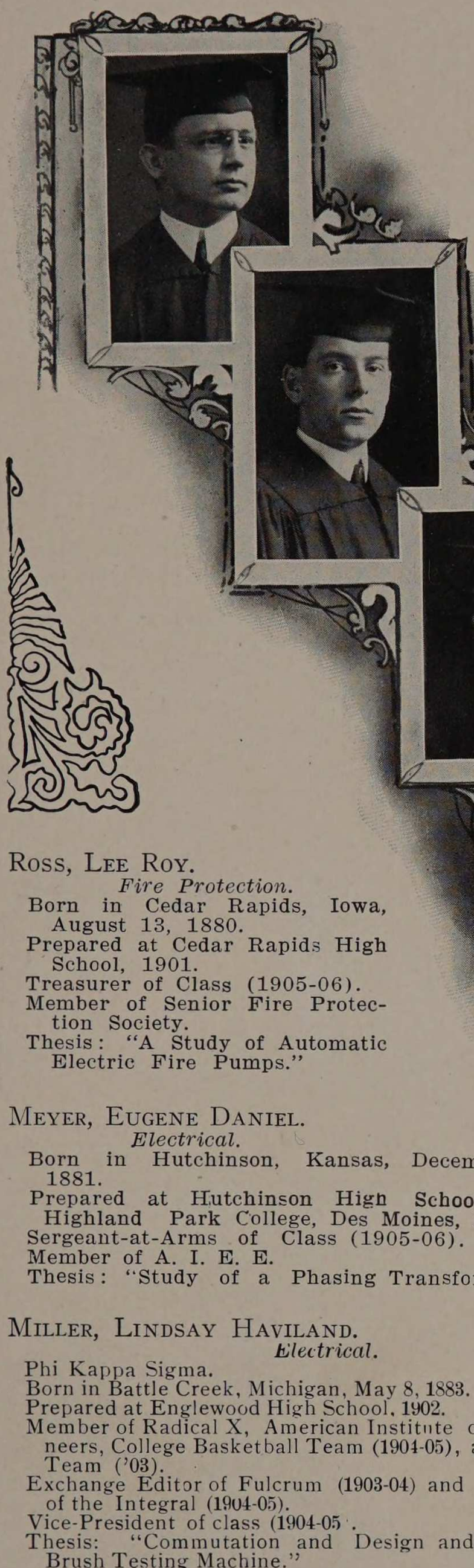
FRANK T. PIERCE FRANKLIN A. WANNER

Fulcrum Representatives

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Social Committee

LINDSAY H. MILLER, *Chairman*
HENRY J. SAWTELL GEORGE W. CLUCAS FRANK T. PIERCE



SMITH, GEORGE W.

Electrical.

Phi Gama Delta.
Born in Whitewright, Texas, June 22, 1878.
Prepared at Grayson College and University of Texas.
President of Class (1905-06).
Member of American Institute of Electrical Engineers.
Thesis: "Investigation of Magnetic Alloys."

HARRINGTON, PHILIP.

Electrical.

Born in Worcester, Mass., January 28, 1886.
Prepared at Lake High School.
Vice-President of Class (1905-06).
Member of College Baseball Team ('05 and '06). Class Baseball and Basketball Teams.
Thesis: "Permeability of Magnetic Irons and Alloys."

STRUBE, HARRY L.

Mechanical.

Born in Chicago, December 3, 1884.
Prepared at Armour Academy.
Secretary of Class (1905-06).
Member of Senior Mechanical Society, College Baseball Team ('04, '05 and '06).
Thesis: "Comparative Test of Steam Separators."

ROSS, LEE ROY.

Fire Protection.

Born in Cedar Rapids, Iowa, August 13, 1880.
Prepared at Cedar Rapids High School, 1901.
Treasurer of Class (1905-06).
Member of Senior Fire Protection Society.
Thesis: "A Study of Automatic Electric Fire Pumps."

MEYER, EUGENE DANIEL.

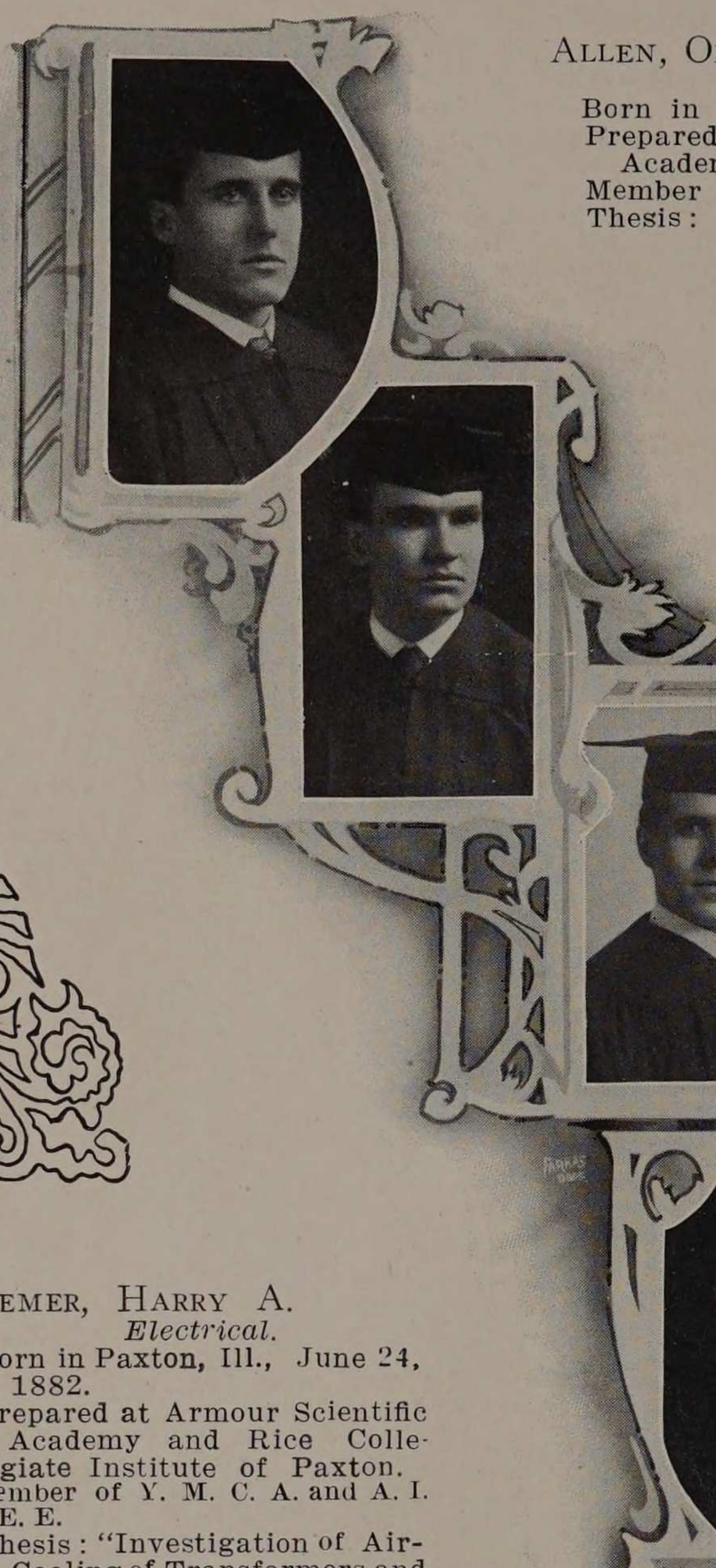
Electrical.

Born in Hutchinson, Kansas, December 8, 1881.
Prepared at Hutchinson High School and Highland Park College, Des Moines, Iowa.
Sergeant-at-Arms of Class (1905-06).
Member of A. I. E. E.
Thesis: "Study of a Phasing Transformer."

MILLER, LINDSAY HAVILAND.

Electrical.

Phi Kappa Sigma.
Born in Battle Creek, Michigan, May 8, 1883.
Prepared at Englewood High School, 1902.
Member of Radical X, American Institute of Electrical Engineers, College Basketball Team (1904-05), and Class Football Team ('03).
Exchange Editor of Fulcrum (1903-04) and Business Manager of the Integral (1904-05).
Vice-President of class (1904-05).
Thesis: "Commutation and Design and Construction of Brush Testing Machine."



ALLEN, ORRIN THOMAS.

Civil.

Born in Belle Plaine, Iowa, December 17, 1881.
Prepared at Belle Plaine High School, and Armour Scientific Academy, '02.
Member of '06 Civil Society.
Thesis: "Re-enforced-Concrete Railroad Arch Bridge."

ALLYN, ARTHUR JOSEPH.

Electrical.

Delta Tau Delta.
Born in Chicago, Ill., January 17, 1886.
Prepared at St. John's Military Academy, '01.
Manager of Tennis Team '04 and member of Mandolin Club '05.
Thesis: "Storage Batteries."

BAKER, CHARLES.

Electrical.

Born in Chicago, Ill., May 5, 1884.
Prepared at Englewood High School, '02.
Member College Baseball Team, 1904-05; Glee Club, 1904-05, and Smoker Committee, '03.
Thesis: "The Study of Variable Speed Control."

BREMER, HARRY A.

Electrical.

Born in Paxton, Ill., June 24, 1882.
Prepared at Armour Scientific Academy and Rice Collegiate Institute of Paxton.
Member of Y. M. C. A. and A. I. E. E.
Thesis: "Investigation of Air-Cooling of Transformers and Rotary Converters."

BROCK, WALTER LAURENCE.

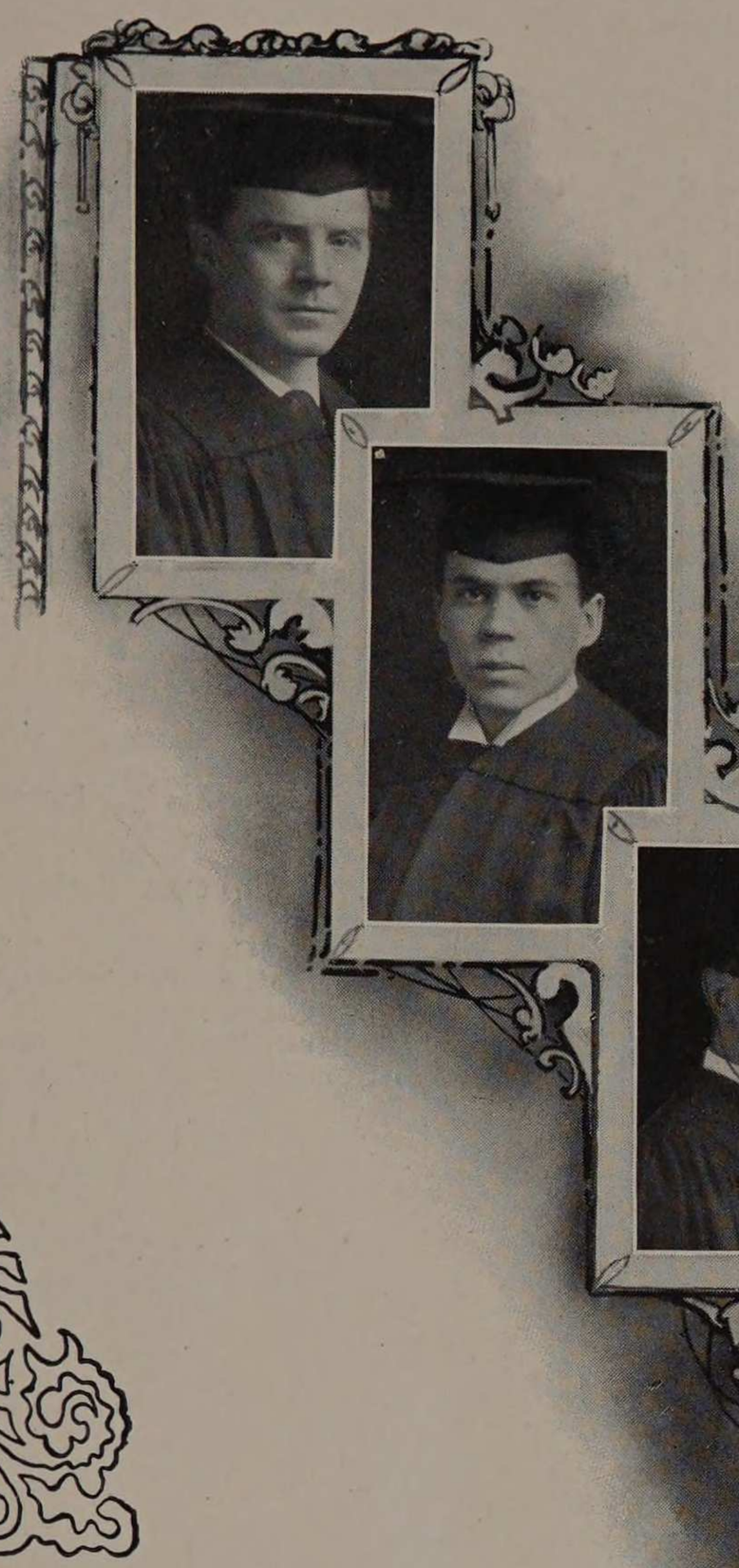
Mechanical.

Born in Bloomington, Ill., September 16, 1885.
Prepared at Calumet High School, '02.
Member of Senior Mechanical Society, 1905-06.
Thesis: "Design of Prony Brake."

BRUBAKER, WILLIAM CHAPPELL.

Mechanical.

Tau Beta Pi.
Born in Peoria, Ill., November 9, 1881.
Prepared at Peoria High School, '00, and Bradley Polytechnic stitute, Peoria, '02.
President Senior Mechanical Society, Fall, '05. President Y. M. C. A. '05. White Scholarship No. 2, 1904-05.
Thesis: "Experimental Development of a Rotary Indicator for the Gas Engine, with a view to Eliminating Errors due to Inertia and Stretch of Cord."



CAMPBELL, CHARLES LESLIE.
Civil.

Delta Tau Delta.
Born in Sparta, Ill., July 18, 1881.
Prepared at Sparta High School, '98. South Illinois State Normal University, 1899-1900.
Ex-member Class of '04.
Thesis: "Economic Grade Reduction."

CARR, ALVA LEE.
Mechanical.

Born in Milford, Ill., October 28, 1883.
Prepared at Hyde Park High School, Chicago, '02.
Member of Senior Mechanical Society, 1905-06. Captain College Baseball Team, '06.
Thesis: "Comparative Test of Steam Separators."

CLUCAS, GEORGE WORDEN.
Mechanical.

Born in Mansfield, Ohio, February 4, 1884.
Prepared at Centennial High School, Pueblo, Colo., '02.
Member Senior Mechanical Society, 1905-06.
Thesis: "The Physical Properties of Various Kinds of Wire."

COLLINS, WILLIAM RANDALL.
Chemical.

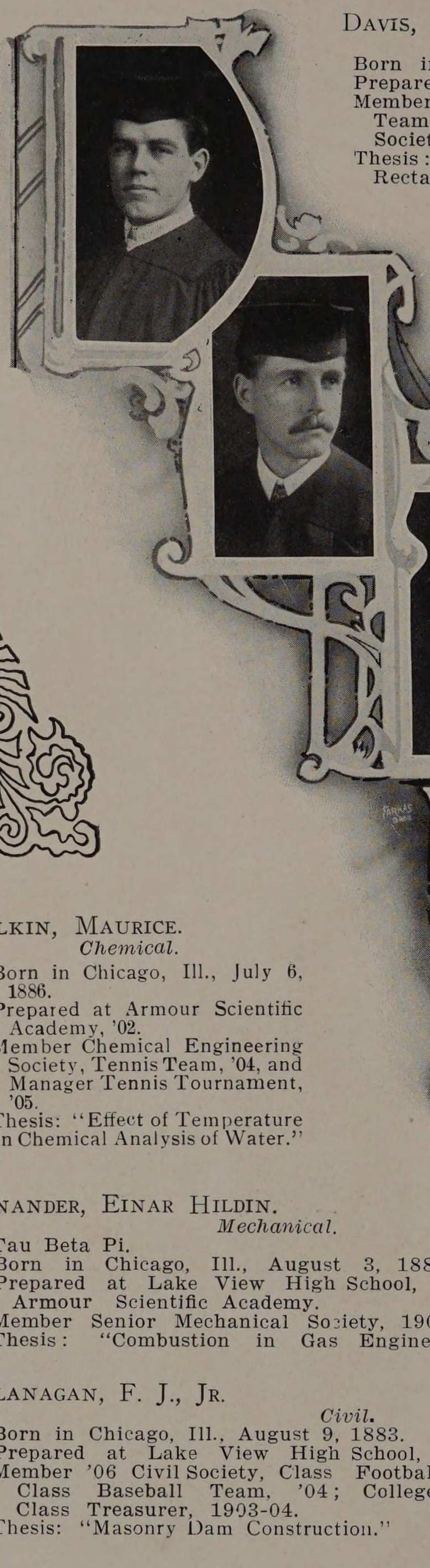
Born in Newport, Kentucky, August 28, 1884.
Prepared at Hyde Park High School, Chicago, '02.
Member of Chemical Engineering Society. Member of class Baseball Team, '05.
Thesis: "Changes in Nitrogen Constituents of Water."

COOK, NORMAN WOLCOTT.
Architecture.

Phi Kappa Sigma.
Born in Ottawa, Ill., December 8, 1882.
Prepared at Ottawa High School, '02.
Thesis: "A Fraternity House."

CUTLER, E. WARNER.
Electrical.

Born in Chicago, Ill., March 20, 1883.
Prepared at Englewood High School, Chicago.
Member A. I. E. E.
Thesis: "A Comparative Study of Watt-hour Meters."



DAVIS, AUGUSTINE, JR.

Mechanical.

Born in Huron, South Dakota, February 28, 1884.
Prepared at Calumet High School, Chicago.
Member Y. M. C. A., Class Football Team, 1902; College Football Team, '02, '04, '05; College Track Team, '05; Senior Mechanical Society, 1905-06.
Thesis: "Mechanical Limits of Flexure for Sections other than Rectangular."

DEAN, STANLEY.

Civil.

Born in Manchester, England, February 22, 1879.
No Preparatory School. Washington University, St. Louis, Mo, 1901-03.
Member Beta Theta Pi Fraternity, Member Glee Club, 1904-05.

EDSON, NORMAN L.

Mechanical.

Born in Cedar Rapids, Iowa, October 24, 1882.
Prepared at Cedar Rapids High School, '01 and Coe College, 1901-02.
Member Smoker Committee, '05 and '06. Senior Mechanical Society, 1905-06.
Thesis: "Heat Transmission Through Condenser Tubes."

ELKIN, MAURICE.

Chemical.

Born in Chicago, Ill., July 6, 1886.
Prepared at Armour Scientific Academy, '02.
Member Chemical Engineering Society, Tennis Team, '04, and Manager Tennis Tournament, '05.
Thesis: "Effect of Temperature on Chemical Analysis of Water."

ENANDER, EINAR HILDIN.

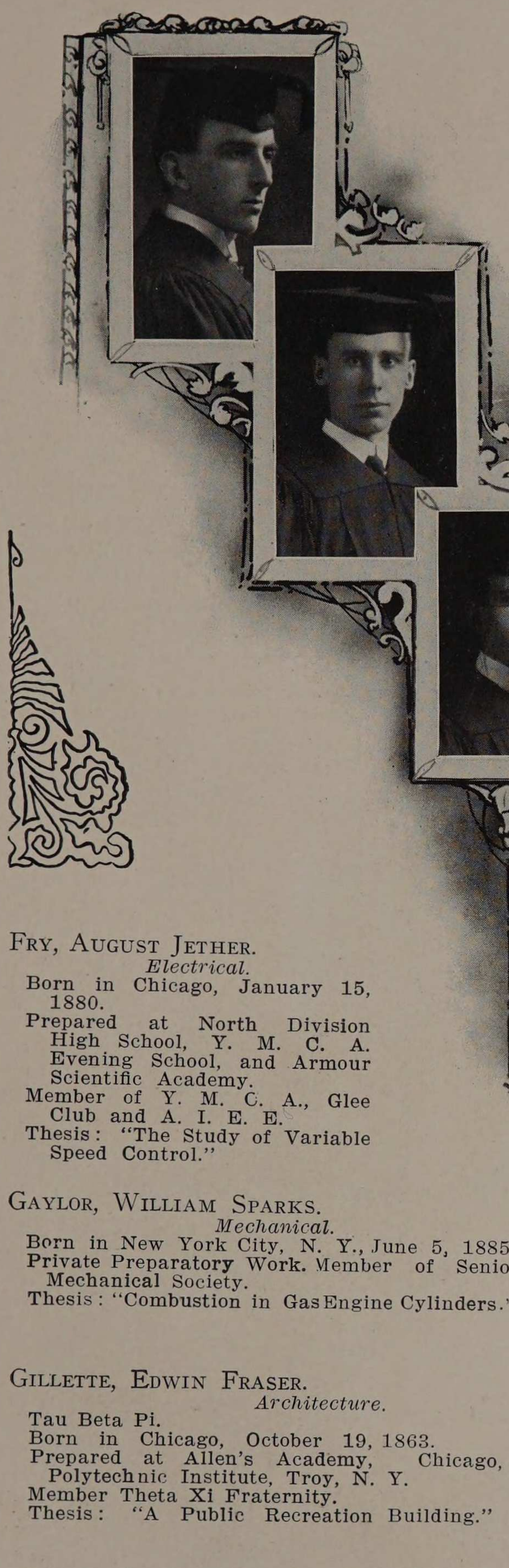
Mechanical.

Tau Beta Pi.
Born in Chicago, Ill., August 3, 1881.
Prepared at Lake View High School, Chicago, and Armour Scientific Academy.
Member Senior Mechanical Society, 1905-06.
Thesis: "Combustion in Gas Engine Cylinders."

FLANAGAN, F. J., JR.

Civil.

Born in Chicago, Ill., August 9, 1883.
Prepared at Lake View High School, Chicago, '02.
Member '06 Civil Society, Class Football Team, '02 and '03; Class Baseball Team, '04; College Football Team, '05; Class Treasurer, 1903-04.
Thesis: "Masonry Dam Construction."



FLOOD, WALTER HENRY.

Chemical.

Born in Chicago, May 14, 1885. Prepared at Armour Scientific Academy, '02.
Member of Chemical Engineering Club.
Thesis: "Design of a Sulphite Pulp Mill."

FOCHT, RALPH GARFIELD.

Mechanical.

Born in Lockport, Ill., March 13, 1881.
Prepared at Lockport High School, '01.
Member of Senior Mechanical Society, 1905-06.
Thesis: "Comparative Test of Lubricating Oils."

FORD, TENNEY S.

Civil.

Tau Beta Pi.
Born in Galva, Ill., August 27, 1882.
Prepared at English High School, Chicago, '99.
Member of '06 Civil Society.
Thesis: "Masonry Dam Construction."

FRY, AUGUST JETHER.

Electrical.

Born in Chicago, January 15, 1880.
Prepared at North Division High School, Y. M. C. A. Evening School, and Armour Scientific Academy.
Member of Y. M. C. A., Glee Club and A. I. E. E.
Thesis: "The Study of Variable Speed Control."

GAYLOR, WILLIAM SPARKS.

Mechanical.

Born in New York City, N. Y., June 5, 1885.
Private Preparatory Work. Member of Senior Mechanical Society.
Thesis: "Combustion in Gas Engine Cylinders."

GILLETTE, EDWIN FRASER.

Architecture.

Tau Beta Pi.
Born in Chicago, October 19, 1863.
Prepared at Allen's Academy, Chicago, Rensselaer Polytechnic Institute, Troy, N. Y.
Member Theta Xi Fraternity.
Thesis: "A Public Recreation Building."



GREIFENHAGEN, EDWIN OSCAR.
Civil.

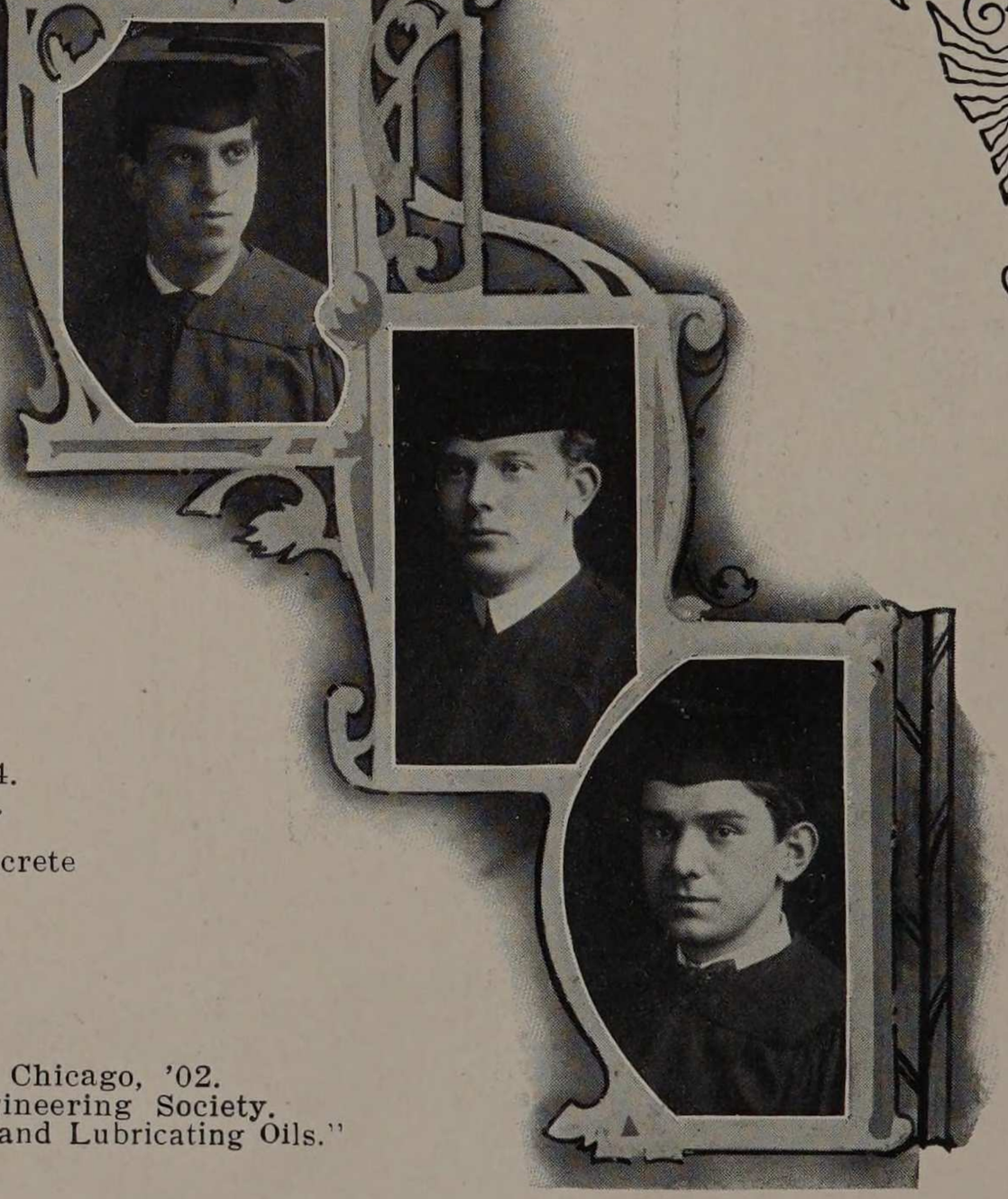
Tau Beta Pi.
Born in Chicago, Ill., January 14, 1886.
Prepared at Lake View High School, Chicago.
Member and Corresponding Secretary of '06 Civil Society.
Thesis: "Design of Two-hinged, Spandrel-braced, Steel-Arch, Double-Track Railroad Bridge."

HAYES, CHARLES EDWARD.
Mechanical.

Born in Red Oak, Iowa, December 7, 1883.
Prepared at Red Oak High School and Armour Scientific Academy.
Member Orchestra, 1902-03; Mandolin and Glee Clubs, 1904-05; Senior Mechanical Society, 1905-06.
Thesis: "The Recalescence of Steel and Other Metals."

HEPP, ARNOLD ALBERT.
Fire Protection.

Born in Chicago, Ill., December 16, 1885.
Prepared at Chicago Manual High School, '02.
Member Track and Football Teams, also Senior Fire Protection Society, College Basket Ball Team, '06.
Thesis: "Comparison of the Ideal Dry Pipe Valves."



4/10/62

HILLER, EUGENE FRANK.
Civil.

Born in Chicago, Ill., November 6, 1884.
Prepared at Hyde Park High School, Chicago, '02.
Member of Radical X Society, '06 Civil Society, and Camera Club. Member Orchestra, 1902-03-04, and Manager Orchestra, 1904-05.
Thesis: "Design of Water Works and Sewer for St. Charles, Ill."

D

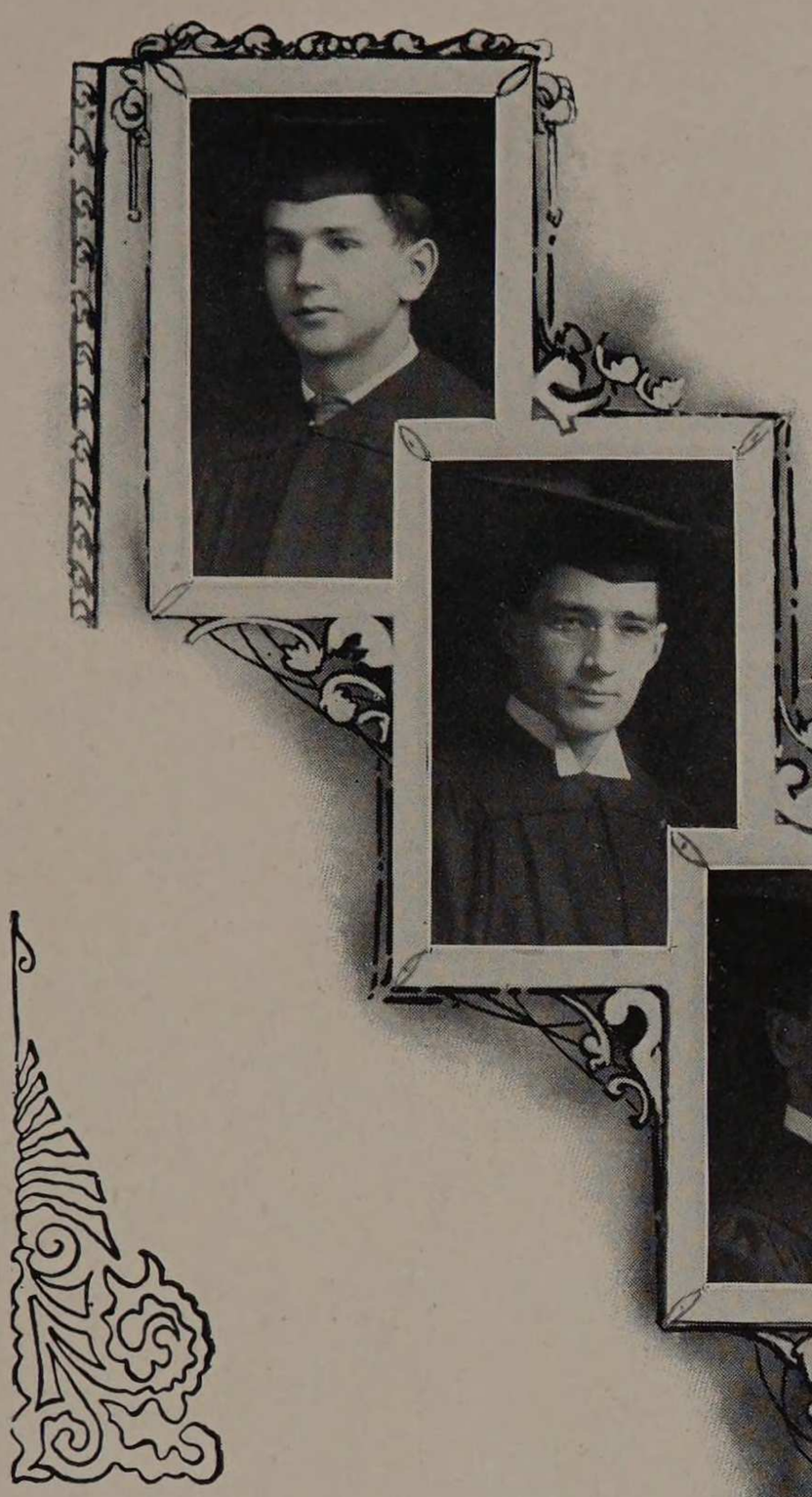
HOLCOMB, CHARLES STEWART.
Civil.

Born in Rochelle, Ill., January 9, 1884.
Prepared at Hinsdale High School.
Member of Executive Board, '06 Civils.
Thesis: "Design of a Re-enforced-Concrete Railroad Arch Bridge."

D

HOTCHKISS, CHARLES CARR.
Chemical.

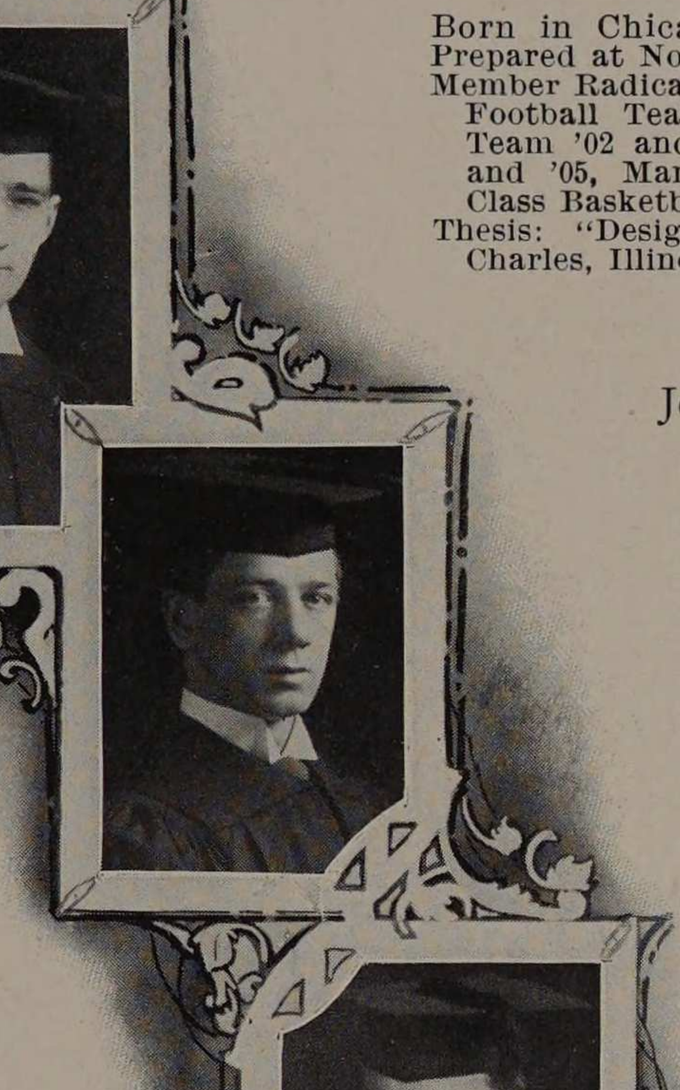
Born in Chicago, Ill., May 11, 1885.
Prepared at West Division High School, Chicago, '02.
Member Y. M. C. A. and Chemical Engineering Society.
Thesis: "Mutual Action of Bearing-Metals and Lubricating Oils."



HOUGHTON, VAUGN ALLEN.
Mechanical.
Born in Austin, Ill., March 11, 1886.
Prepared at Austin High School, '02.
Member Class Baseball Team, '04, and Senior Mechanical Society, 1905-06.
Thesis: "Cement Characteristics."

JOHNSON, CARL O.
Civil.
Born in Chicago, Ill., November 13, 1884.
Prepared at North Division High School, '02.
Member Radical X Society, '06 Civil Society, Class Football Team, '02 and '03; Class Basket Ball Team '02 and '03, College Basket Ball Team '04 and '05, Manager College Basket Ball Team and Class Basketball Team, '06.
Thesis: "Design of Water Works and Sewer for St. Charles, Illinois."

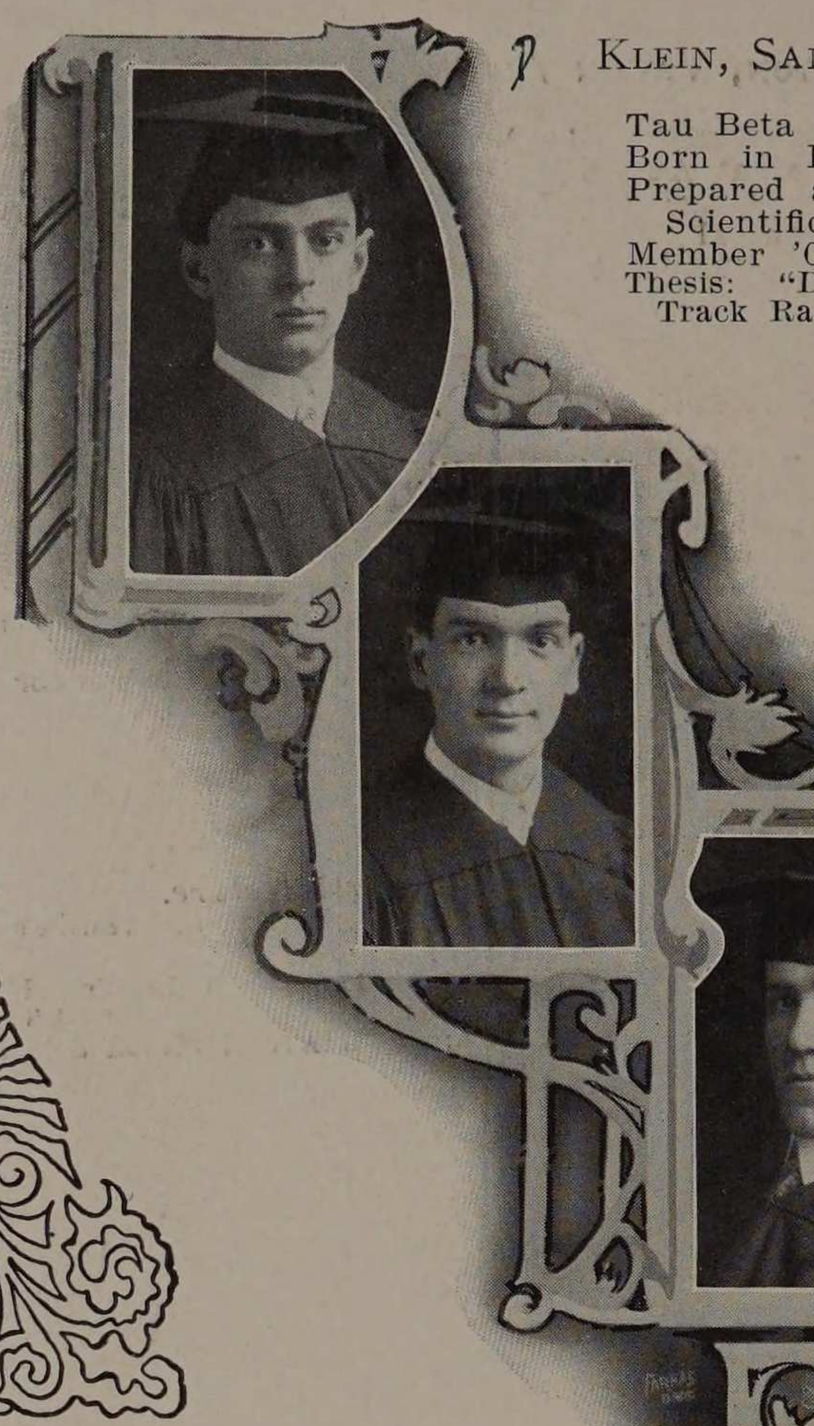
JOHNSON, J. CARROLL.
Architecture.
Born in Sweden, November 9, 1882.
Prepared at Chicago English High and Manual Training School '00.
Thesis: "An Architecturai School."



KEETH, GROVER.
Mechanical.
Tau Beta Pi.
Born in Spencerville, Ohio, September 8, 1884.
Prepared at Colorado Springs High School, Colorado.
Member Senior Mechanical Society 1905-06, and Manager College Base Ball Team '06.
Thesis: "Bibliography of Power Plant Subjects."

KIMBALL, RAYMOND WATSON.
Mechanical.
Born in Joliet, Ill., February 14, 1881.
Prepared at Joliet High School and Armour Scientific Academy.
Member Senior Mechanical Society, 1905-06.
Thesis: "Heat Transmission Through Condenser Tubes."

KLAPPER, CHARLES.
Electrical.
Tau Beta Pi.
Born in New York, N. Y., February 18, 1884.
Prepared at Joseph Medill High School, '02.
Member A. I. E. E.
Thesis: "Determinations of Variations of Candle Power of A. C. Lamp with E. M. F. and Current Wave-Forms."



KLEIN, SAMUEL.

Civil.

Tau Beta Pi.
Born in Kasau, Austria, Hungary, March 3, 1884.
Prepared at Northwest Division High School, Chicago, and Armour Scientific Academy.
Member '06 Civil Society.
Thesis: "Design of Two-hinged, Spandrel-braced Steel-Arch, Double-Track Railroad Bridge."

KRUM, HOWARD LEWIS.

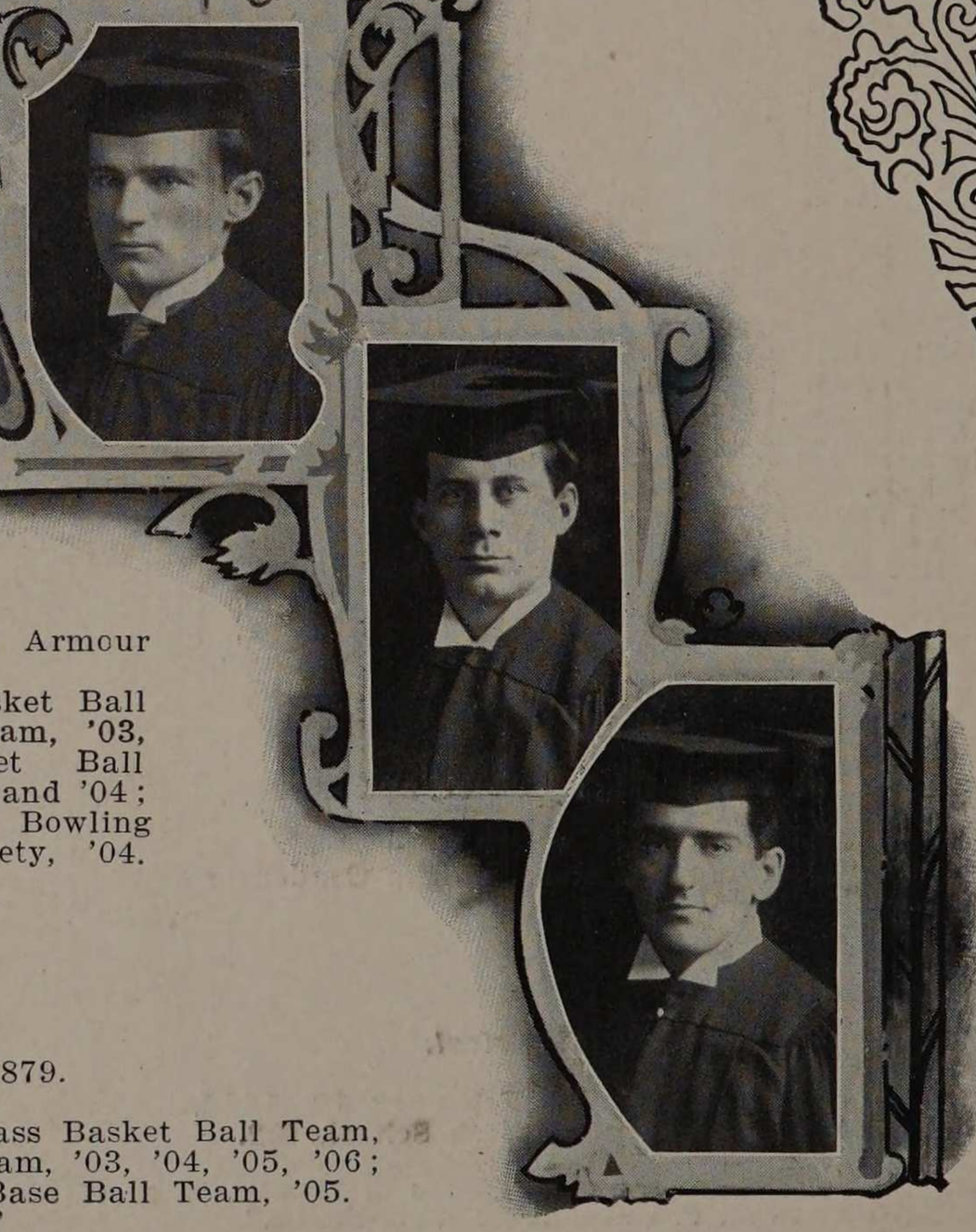
Electrical.

Tau Beta Pi.
Born in Minneapolis, Minn., November 15, 1883.
Prepared at Hyde Park High School, Chicago.
Member Executive Committee, A. I. E. E.
Thesis: "Investigation of Air-cooling of Transformers and Rotary Converters."

KUHN, GEORGE WILLIAM.

Electrical.

Tau Beta Pi.
Born in Chicago, Ill., May 10, 1883.
Prepared at Armour Scientific Academy, '98.
Thesis: "The Oscillograph and A Study of Unbalanced Phase Loading of Transformers."



LAYER, ROBERT.

Architecture.

Born in Chicago, Ill., March 3, 1883.
Prepared at Chicago Manual Training School.
Thesis: "Group of Public Buildings."

LEININGER, WALTER GEORGE.

Civil.

Born in Buffalo, N. Y., April 27, 1882.
Prepared at Buffalo High School and Armour Scientific Academy.
Member '06 Civil Society, Class Basket Ball Team, '03; College Basket Ball Team, '03, '04, '05; Captain College Basket Ball Team, '06; Class Base Ball Team, '03 and '04; Member Class Football Team, '03, and Bowling Team, '05; Chairman '06 Civil Society, '04. Law Clerk. 1899-1901.
Thesis: "A Sewage Disposal Plant."

LIEBERMANN, ERNST.

Civil.

Tau Beta Pi.
Born in Sheboygan, Wis., October 27, 1879.
Prepared at Sheboygan High School.
Member '06 Civil Society, Manager Class Basket Ball Team, '05; Member College Basket Ball Team, '03, '04, '05, '06; Class Basket Ball Team, '03; Class Base Ball Team, '05.
Thesis: "A Sewage Disposal Plant."



McCRACKIN, WALLACE.

Electrical.

Born in Fairfield, Iowa, July 5, 1883.
Prepared at Hamilton High School, Montana, and Armour Scientific Academy.
Thesis: "Inductive Effect of Iron Conduit upon Alternating Currents Enclosed."

MORAN, CHARLES EGAN.

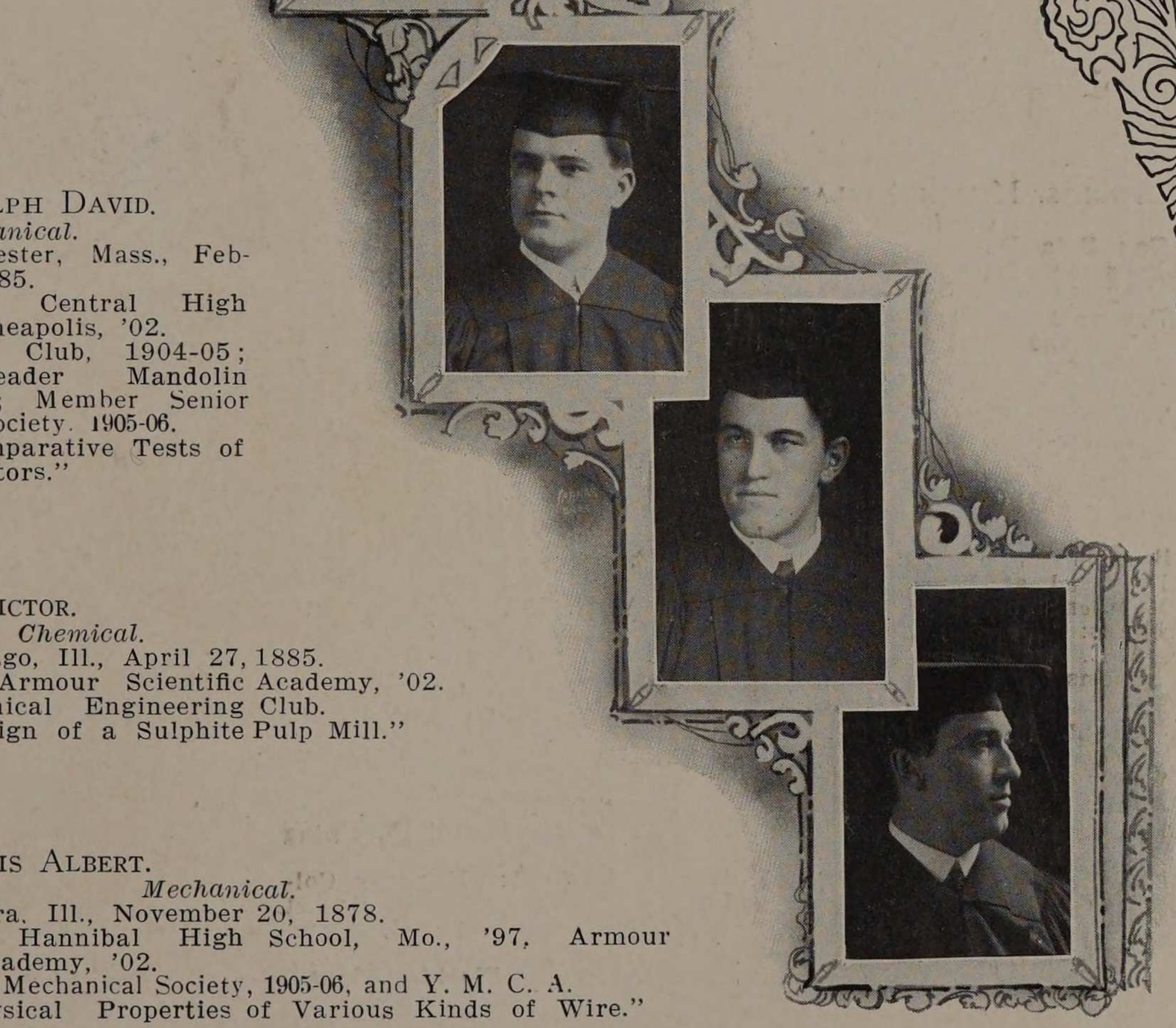
Electrical.

Born in Jackson, Mich., November 29, 1882.
Prepared at Rockford High School, '01, and Notre Dame University, 1901-03.
Member A. I. E. E.
Thesis: 'Inductive Effect of Iron Conduit upon Alternating Currents Enclosed."

MORETON, DAVID PENN.

Electrical.

Tau Beta Pi.
Born in Moscow, Ohio, February 16, 1882.
Prepared at Moscow High School, '99.
Member A. I. E. E. and Instructor Night School
Thesis: "The Oscillograph and A Study of Unbalanced Phase Loading of Transformers."



MORRISON, RALPH DAVID.

Mechanical.

Born in Worcester, Mass., February 4, 1885.
Prepared at Central High School, Minneapolis, '02.
Member Glee Club, 1904-05; Student Leader Mandolin Club. 1904-05; Member Senior Mechanical Society. 1905-06.
Thesis: "Comparative Tests of Oil Eliminators."

NICHOLSON, VICTOR.

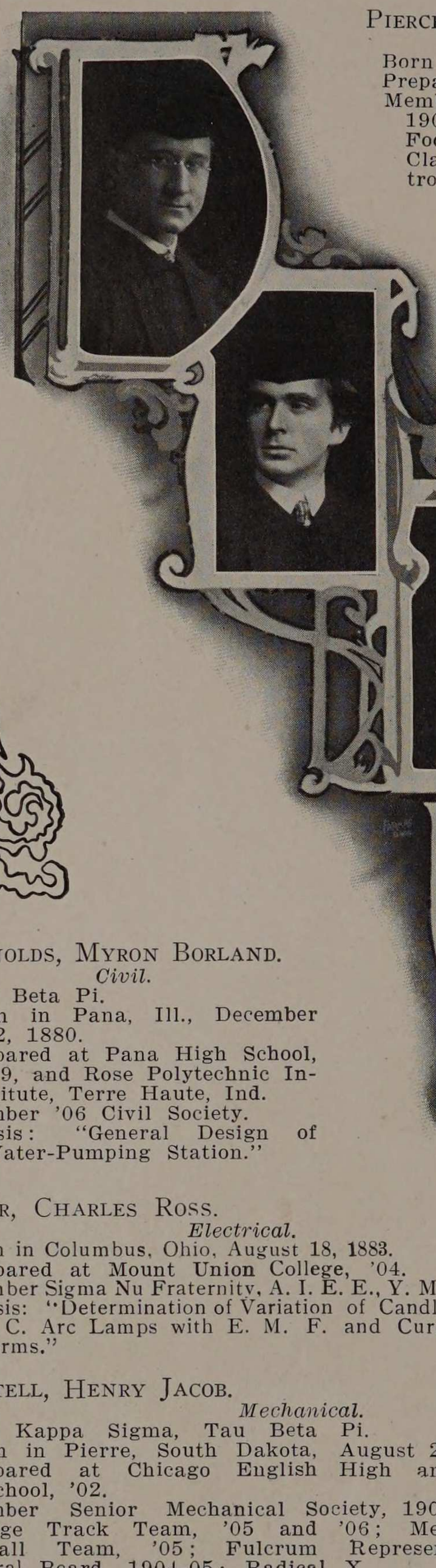
Chemical.

Born in Chicago, Ill., April 27, 1885.
Prepared at Armour Scientific Academy, '02.
Member Chemical Engineering Club.
Thesis: "Design of a Sulphite Pulp Mill."

PARADISE, LOUIS ALBERT.

Mechanical.

Born in Aurora, Ill., November 20, 1878.
Prepared at Hannibal High School, Mo., '97, Armour Scientific Academy, '02.
Member Senior Mechanical Society, 1905-06, and Y. M. C. A.
Thesis: "Physical Properties of Various Kinds of Wire."



PIERCE, FRANK TYLER.

Civil.

Born in Chicago, Ill., November 17, 1883.
Prepared at Hyde Park High School, '02.
Member Radical X Club, '06 Civil Society, Fulcrum Staff, 1903-04; College Football Team, '02, '04, '05; Class Football Team, '02, '03; Class Base Ball Team, '04, '05; Class Treasurer, '05; Secretary Board of Athletic Control, '06.

Thesis: "Design of Water Works and Sewer for St. Charles, Ill."

QUIN, HUGH G. R.

Chemical.

Born in Chicago, Ill., August 12, 1883.
Prepared at Lake View High School, Chicago, '01.
Member Chemical Engineering Society.

Thesis: "Design of a Portland Cement Plant."

REED, OLIVER ROY.

Civil.

Born in Glenview, Ill., November 29, 1881.
Prepared at John Marshall High School, Chicago, '02, and University of Illinois, 1902-05.
Thesis: "Design of a Re-enforced Concrete Reservoir."

REYNOLDS, MYRON BORLAND.

Civil.

Tau Beta Pi.
Born in Pana, Ill., December 12, 1880.
Prepared at Pana High School, '99, and Rose Polytechnic Institute, Terre Haute, Ind.
Member '06 Civil Society.
Thesis: "General Design of Water-Pumping Station."

RIKER, CHARLES ROSS.

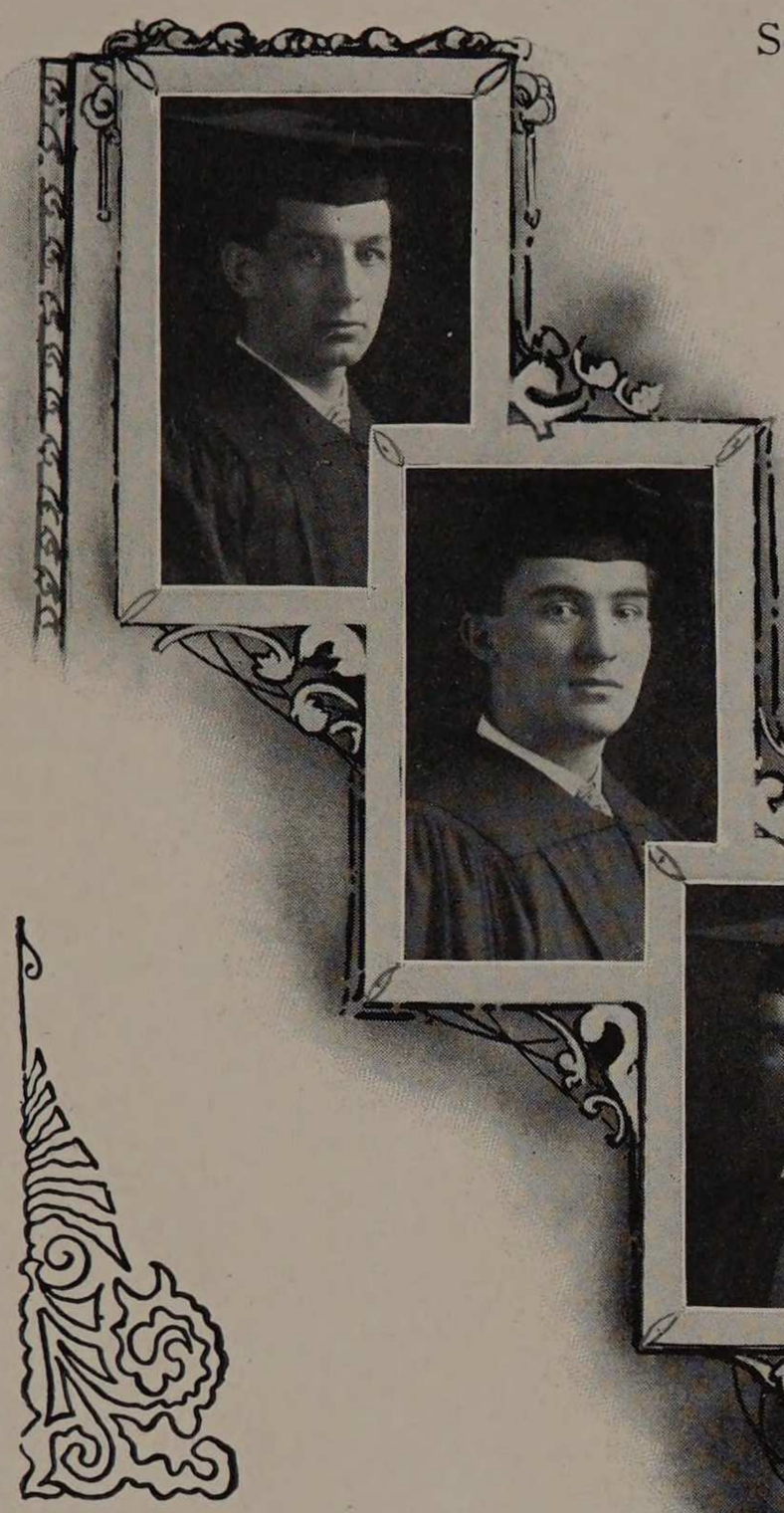
Electrical.

Born in Columbus, Ohio, August 18, 1883.
Prepared at Mount Union College, '04.
Member Sigma Nu Fraternity, A. I. E. E., Y. M. C. A.
Thesis: "Determination of Variation of Candle Power of A. C. Arc Lamps with E. M. F. and Current Wave-Forms."

SAWTELL, HENRY JACOB.

Mechanical.

Phi Kappa Sigma, Tau Beta Pi.
Born in Pierre, South Dakota, August 2, 1885.
Prepared at Chicago English High and Manual Training School, '02.
Member Senior Mechanical Society, 1905-06; Manager College Track Team, '05 and '06; Member Class Basket Ball Team, '05; Fulcrum Representative, 1905, Integral Board, 1904-05; Radical X.
Thesis: "Design of 500-Ton Bituminous Coal Washing Plan[illegible]"



SCHAEDLICH, HANS.

Electrical.

Born in Frankfort, Germany, October 28, 1884.
Prepared at North Division High School, '02.
Member A. I. E. E.
Thesis: "Comparative Study of Watt-Hour Meters."

SCHUMACHER, JCS. NICHOLAS.

Chemical.

Born in Chicago, Ill., March 16, 1884.
Prepared at North Division High School, '02.
Member Chemical Engineering Society and Glee Club.
Thesis: "Mutual Action of Bearing-Metals and Lubricating Oils."

SCOTT, P. J.

Mechanical.

Born in Wilmington, Ill., December 22, 1879.
Prepared at St. Anthony's Academy, Carroll, Iowa, '96; Carroll High School, 1897-98; Creighton University, Omaha, Neb., 1898-1902.
Member Creighton University Alumni Association, Camera Club, Senior Mechanical Society, 1905-06; Manager Branch Office Western Union Telegraph Co.
Thesis: "Calorific Determination of Indiana and Illinois Coal."





SMITH, EARL J. L.

Fire Protection.

Born in Dakota, Ill., 1880.
Prepared at Armour Scientific Academy, '02.
Member Camera Club, Senior Fire Protection Society, Class Secretary, 1903-04 and 1904-05.
Thesis: "Comparison of the Ideal Dry Pipe Valves."

SPALDING, ROY STEWART.

Civil.

Born in Morning Sun, Iowa, December 24, 1881.
Prepared at Omaha High School, '00.
Member '06 Civil Society, President Y. M. C. A., '03; Department Secretary Y. M. C. A., '03-06.
Thesis: "A Mechanical Filtration Plant for Water Supply System."



SWEARINGEN, ROY E.

Fire Protection.

Tau Beta Pi.
Born in Fairmont, Minn., September 26, 1884.
Prepared at Fairmont High School, '02.
Member Senior Fire Protection Society.
Thesis: "A Study of Automatic Electric Fire Pumps."



TORRANCE, RALPH SMITH.
Electrical.
Delta Tau Delta.
Born in Avon, N. Y., November 14, 1880.
Prepared at Hyde Park High School, Chicago, '00.
With Western Electric Co., Commonwealth Electric Co., Chicago Edison Co., and Torrance, Benedict & Co., 1899-1902. With Chicago Telephone Co., 1905-06.
Thesis: "Storage Batteries."

WANNER, FRANKLIN A.
Mechanical.
Tau Beta Pi.
Born in Chicago, Ill., December 16, 1885.
Prepared at English High and Manual Training School, Chicago, '02.
Member Track Team and Glee Club, 1904-05, Integral representative, 1905-06; Senior Mechanical Society, 1905-06.
Thesis: "Comparative Tests of Oil Eliminators."

WARSZEWSKI, FRANK S.
Chemical.
Born in Chicago, Ill., April 13, 1884.
Prepared at English High School, Chicago, and University of Chicago.
Member Chemical Engineering Society.
Thesis: "Design of a White Lead Plant."

WILSON, FRED. NORWOOD.
Mechanical.
Born in Norwood Park, Ill., November 27, 1882.
Prepared at Hyde Park High School, '02.
Member Senior Mechanical Society, 1905-06; College Football team, '04 and '05; Manager Class Football Team, '02 and '03; Member Glee Club, 1904-05.
Thesis: "Design and Construction of an Apparatus for Testing Steam Engine Indicators."

WILSON, WILLIAM ROBERT.
Mechanical
Born in Chicago, Ill., October 8, 1884.
Prepared at Walter Scott School, Chicago, '98, and Hyde Park High School, '02.
Member Senior Mechanical Society, 1905-06, Camera Club, Editor-in-Chief of Fulcrum, 1904-05.
Thesis: "Microstructure of Stay-Bolt Iron and its Microphotography."

WOLDENBERG, MAXIMILIAN.
Chemical.
Born in Wloclaivek, Poland, August 23, 1885.
Prepared at Chicago English High and Manual Training School, '02.
Member Chemical Engineering Club, Y. M. C. A., and Glee Club; Class Bowling Team, '03, '04, '05, '06; Class Base Ball and Basket Ball Teams, '05 and '06; Manager College Football Team, '05; Smoker Committee, '05.
Thesis: "Moulding Sands."

CLASS OF '06 QUITUATES

LAST EDITION
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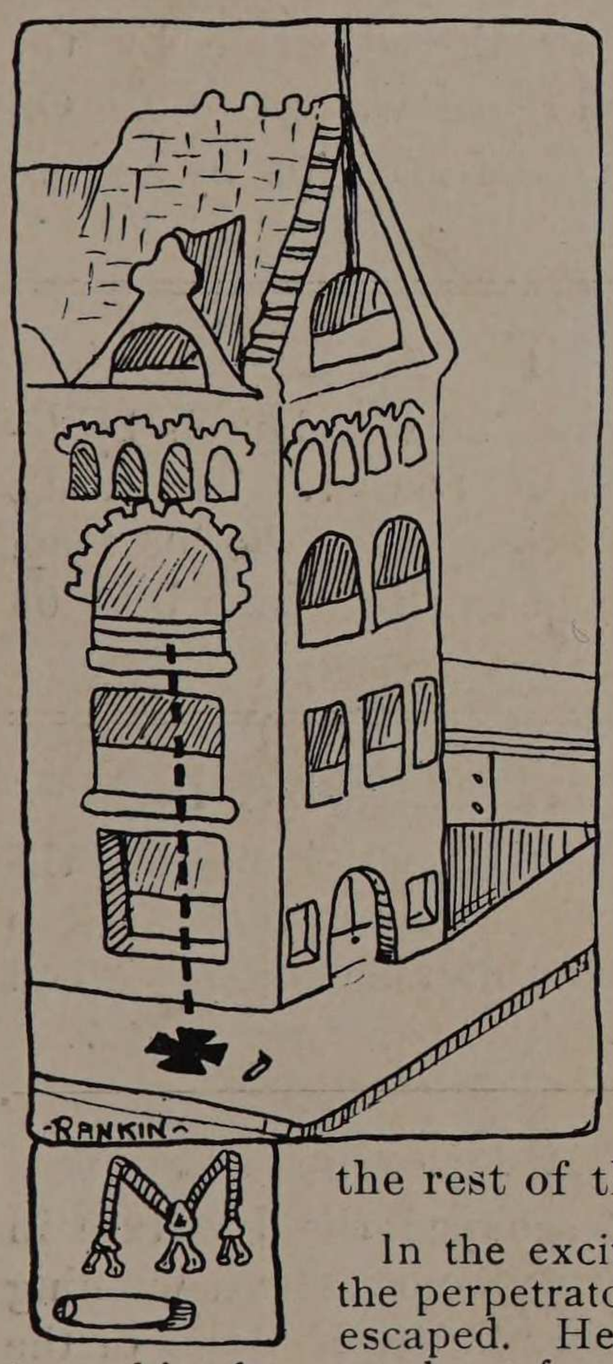
CHICAGO ARMOURICAN

SENIOR
EXTRA

VOL. MDCCCCVI. NO. 23. CHICAGO, JUNE, 1906. PRICE ONE CENT

FIVE STUDENTS ALMOST KILLED

TERRIBLE MURDER AVERTED



A frightful outrage at A. I. T. was narrowly averted this afternoon in a manner little short of the miraculous.

Some miscreant hurled an iron missile from the third floor of the main building at a group of students who were innocently at play on their campus. The students, little suspecting danger, would have been crushed to a certain death had the ruffian hurled the rest of the boiler plant.

In the excitement which followed, the perpetrator of the dastardly deed escaped. He had not, up to a late hour this afternoon, been found, though the police are expecting his early apprehension, as they hold several valuable clues on the case. These clues consist of a safety pin and a pair of suspenders which the villain left behind him in his flight. The initials "C. O. J." on the suspenders lead the police to believe that the ruffian's name was Jackson, though in this they may be wrong.

BLOODY BATTLE AT ARMOUR

At last a new era has come into the history of A. I. T. There a mighty class of stalwarts has arisen under the numerals of "1906." Their doings have electrified the world, aye they have gone farther—they have revolutionized science—of warfare.

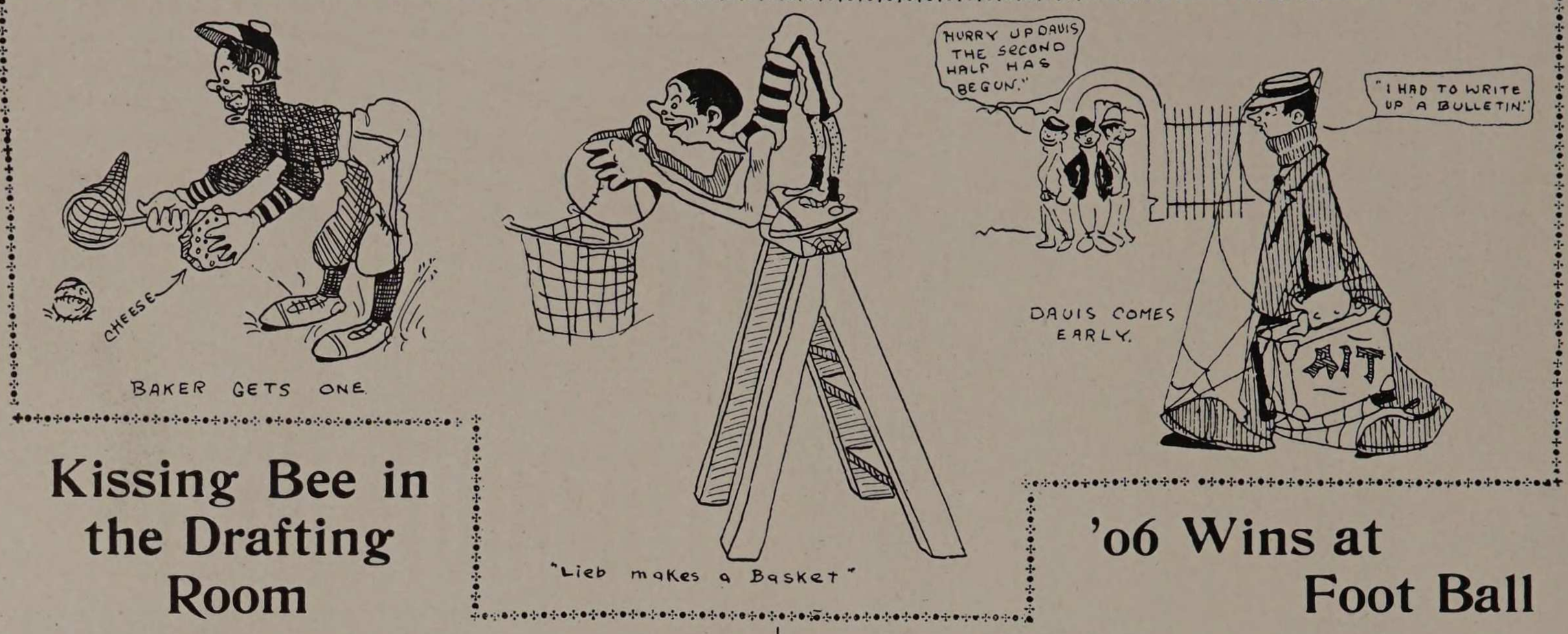
On that chill September morning when the standards of 1905 were advanced against them, the hearts of the "Rixey, Ray, Rah" boys thrilled with eagerness of battle. On came the 1905 tyrants, drawn up in goodly array, the dummy in their midst. With a stifling cry they met, and there, backward and forward for an hour that seemed an age, that dark, seething mass of struggling humanity fought bitterly for supremacy.

Then when victory was still in the balance, 1906 relaxed a moment, and gathered itself for one supreme trial. A moment later a solid mass struck the 1905 men to their defeat, and on over their fallen opponent 1906 marched to victory. Long will the day of that gallant charge live, for that was the beginning of '06's triumphant career.

Continued on Page 16.

BOXING — BOWLING — ATHLETICS

'06 ENTERS ATHLETICS AT A. I. T.—DAD



Kissing Bee in the Drafting Room

Although the lid has been jammed down rather hard of late, nevertheless a few prominent sports managed to pull off a little mill up in the Civil Drafting Room late last night.

The preliminaries were as tame as a housebroke rose bush, but the real article was furnished in the wind up by a couple of local bantams. Kid Greif, the pride of Goose Island, and Spider Hiller, the Douglas Park Coffee Cooler, were matched for the championship of their class. The fun began with the tap of the gong. Spider let loose with a haymaker which removed some plaster. The Kid retaliated with a right hook which nearly unhooked the gas jet. Spider stuck out his tongue and the Kid countered by making a face that put the Spider amongst the ropes. So far all had been long-range fighting, with sparring at 10 feet apart, and with lots of good foot-work.

Then suddenly in the 14th, Spider became aggressive. He swung one calculated to hit anywhere between the hat and the knee. They came together in a "long-lost-brother act"—the clinch was frightful. The scene now became so affecting that strong men wept and one man in the crowd went so far as to say that he would swear off drinking if he ever lived through it. Just at this moment footsteps from without were heard. Hastily the two bantam-weights were separated, the decision being given as a draw.

'06 Wins at Foot Ball

In the Annual Freshman-Sophomore foot-ball game the '06 team won readily from the Freshmen. Preliminary to the game the large audience was entertained by a band concert specially arranged for the occasion by the Freshmen. The final score was 12 to 0. On the preceding year '06 defeated '05 by a score of 16 to 6.

BASKET BALL

Again as Sophomores, '06 won laurels by defeating '07 by a score of 14 to 7. The result was somewhat to be expected, as the '06 team was practically the same as that which beat '05 by 25 to 21.

NEWS OF THE DIAMOND

A good article of baseball was handed to the fans when '06 won from '07 by a score of 18 to 3. The preceding year '05 men suffered a bad defeat at '06's hands. The score was 9 to 7.

WITH THE BOWLERS

As Freshmen, '06 scooped the Institute in the first annual Bowling Tournament, winning it easily from the other classes. Some of the sturdy supporters of the Blue and Gold, who have followed their teams in the more recent Tournaments, have complained bitterly that things were not as they were in 1903, when everything was for '06.

Little Personalities of Men in the Public Eye

By More-of-the Kix

SOME men are like cinders and small pestiferous insects—continually in the public eye. Of course, it would be asking too much to have immunity from these nuisances; in fact, they are a necessary evil. It is by their eccentricities that they reach the limelight and achieve a notoriety unsought. Some striking ones are given in the following collection.

Prof. Ford generally uses a wooden toothpick after eating, and prefers the rocking chair to the high office stool when resting.

It is said that Spalding is the busiest man in the city. It was remarked by Dean Monin one morning when Spalding failed to appear: "Oh yes, Secretary, isn't it?"

Brock's most distinguishing point is his celebrated grin. He was once seen without it—at a funeral, where he had stepped on a tack.

Leininger has a wide-spread reputation as a mimic. Even his closest friends, so 'tis said, cannot distinguish his imitation of a "jingle-jingle" or the death-song of a fish—from the original.

From his long association with Y. M. C. A. circles, Brubaker has assimilated an expression of piety. Even while dozing in Contracts he invariably supports his forehead on his hand in a devout attitude.

Jack Barkaway's Kid

A Thrilling Story of Adventure for Boys and Young Men.
By H. L. STRUBE.

(Synopsis of the preceding chapters given at the end of this one.)

CHAPTER MCLXVII.

On and on careened the ship. From crest to crest of the huge waves it skipped. Jack was green around the gills, he stood by the rail, gazing down into the briny depths.

"Hold," cried a gruff voice from the fo'castle—it was Salt Horse Bill. But just then—

To be Continued.

BALM FOR BROKEN HEARTS

Advice to Lovers

FAIRITRICE BEESWAX



DEAR MISS BEESWAX: I am a young man of 22, but look younger. My favorite color is pink. I love flowers and prefer violets. I am engaged to a young lady whose father has just lost all his money on the Board of Trade. What I want to know is whether you think I am too young to marry.

M. WOLDENBERG.

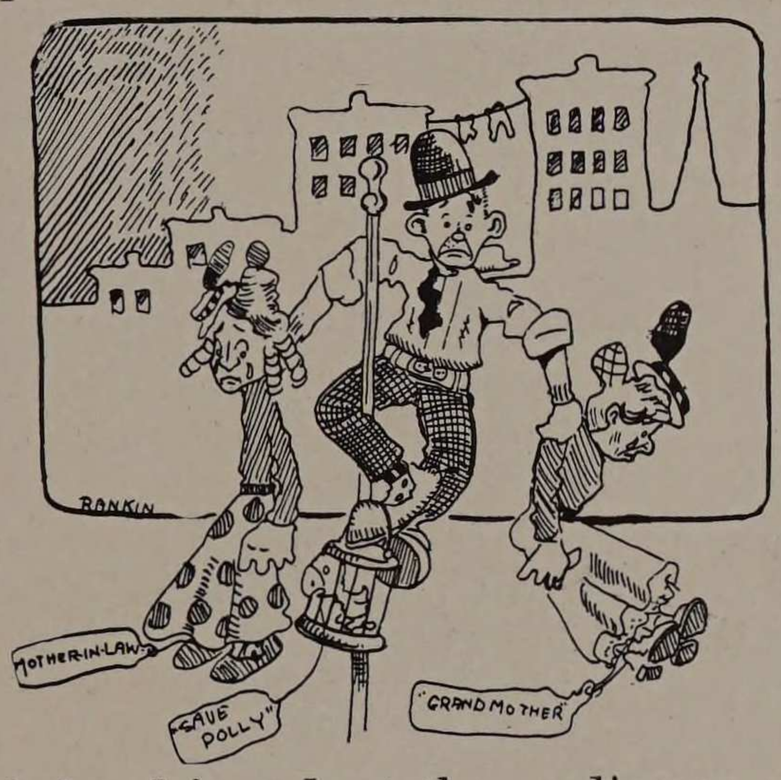
You are too young to marry, besides no self-respecting man would marry a gambler's daughter.

DEAR MISS BEESWAX: I have a young man, Mr. Smith, by name, who comes to call on me every Saturday night. Last Saturday some one stole Pa's overcoat and I wish you could have seen the way Pa acted. He says he is going to tie a can of rocks on my young man. Do you think that Mr. Smith will be insulted if I tell him what Pa is going to do?

GWENDOLYN.

Have your father's best suit near the front door next Saturday. If they disappear, too, you will know he is false.

LOVE PROBLEM



IF YOU were in the man's place shown in the picture, holding his grandmother, his mother-in-law and the parrot on the top of the flag pole, and it were necessary to throw one of them down or the pole break, which would you save ? ? ? ? ? ?

Some answers received:

"When a woman reaches the ordinary age of the grandmother, her period of usefulness is over. If I were in the man's place I would drop the old lady with as little noise as possible."—G. K.

"Save the parrot."—Hon. M. Elkin.

"As a member of the Audubon Society and the Illinois S. P. C. A., I should be against dropping the parrot, and as a respecter of old age, I should be averse to the dropping of the grandmother. The mother-in-law is the only one left. But rather than drop even her, I would tie them all to the pole and cast myself down."—W. Robert Wilson.

EDITORIAL **EVENING ARMOURICAN** CHICAGO

CHICAGO EVENING ARMOURICAN

33RD AND ARMOUR AVENUE, CHICAGO. JUNE, 1906

One Thing Meyer Can't Get

THE VOTES OF THE PEOPLE

We'll Have No Tammany Jack-all Sergeant-at-Arms

It is a notorious fact that the gentlemen infesting the Flats—namely, Tammany Hall, have by crooked work, succeeded in electing Meyer Sergeant-at-Arms. Mr. Meyer dropped for the while his lucrative position of head capper and "come-on" for Gibson to give the impression that he had turned over a new leaf.

BUT HE IS NOW UNMASKED.

Mr. Meyer is back again at his old tricks. His ability as a con man now serves him as a jackal for Tammany.

IT IS NOT THE FAULT OF THE PEOPLE.

He would never have gotten the job if the common people had had anything to say about it. That it has not always been so may be seen from the following wise remarks of Prof. Bemis, the Gas Expert: "Four years ago when hearts rang true and the machine had not started on its infamous career, the people like an awakening lion, arose in wrath against THE HIGH-HANDED OUTRAGES of the bloated aristocracy of '05. Again in the following year was the power of the people demonstrated when the new party which had sprung up, was met at all points and defeated with ease.

Look at this picture and then on that. Since then our bold yeomanry has disintegrated from lack of worthy metal to clash with and has turned to chasing the almighty plunk—starting dinky department stores and bamboozling their brothers on phony fountain pens. Others, untainted by the prevailing spirit of graft, have turned to national affairs and their measure of success indicates what height we might attain."

THESE ARE TRUTHFUL WORDS.

Such men as Meyer are elected because the People Will NOT Help Themselves. To overcome this they must VOTE.

The Call-Down Boys.

THEY DO IT WITH THE ACE, QUEEN, KING AND JACK OF HEARTS AND THE DEUCE OF CLUBS.

MORRISON AND TORRANCE



THEY VISIT THE PHYSICS LECTURE ROOM.

WHEN THE WORLD IS YOUNG



The Wearst Chicago Armourican has been fighting the cause of the people, and before this fight on Meyer is over the Armourican will see that the people get **WHAT THEY WANT.**

The people of the U. S. like men that own themselves and will not cast a vote for such law-breakers as the Tammany gang — Meyer, John Alex Paradise, Overseer Clucas and Understudy Kimball.

58

JUNIORS



JOHN MORTON

The Class

of

Nineteen Hundred and Seven

JUNIORS

COLORS: *Scarlet and Blue*

YELL: *"We're it, by Heaven!*
Armour Tech! '07."

OFFICERS

CHARLES SUMNER HENNING, *President*

HAROLD W. JONES, *Vice-President*

EARL WESTON JONES, *Secretary*

ARTHUR ALLEN KELKENNEY, *Treasurer*

Fulcrum Representatives

H. RALPH BADGER

A. A. KELKENNEY

Social Committee

C. U. SMITH

J. T. WALBRIDGE

C. E. KILGORE

List *of* Members

Students in Civil Engineering

Badger, L. H.
Burkholder, F. L.
Copenhaver, H. K.
Dowdell, C. O.
Ellett, E. H.
Hackett, J. L.
Hayden, A.
Hayden, J.
Heinson, G. M.
Hough, W. B.
Jorgensen, A.
Laubach, G. S.
Lichtner, W. O.
Mathews, J. F., Jr.
Megahy, J.
Millard, C. S.
Nelson, C. J.
Scharle, L. M.
Stanton, G.
Thompson, M.
Tompkins, G. D.
Walbridge, J. T.
Young, L. B.

Students in Mechanical Engineering

Boehmer, A.
Buchannan, B. B.
Busse, C. F.
Chambers, F. A.
Davies, H. C.
Dreffein, C. G.
Dunmore, G. B.
Ehretsman, J. L.
Furry, W.
Hoffman. B., Jr.
Hooper, B. C.
Jackson, I. F.
James, S. V.
Kilgore, E.
MacDonald, M. S.
Matchett, J. C.
Pahlman, P. J.
Perkins, R. A.
Singer, S. C.
Smith, C. U.
Turnbull, I. J.
Wachs, T.
Wells, J. B.

Students in Electrical Engineering

Badger, H. R.
Banning, T. A.
Blumenthal, E. A.
Campbell, E. E.
Clark, F.
Eustice, A. L.
Gilmore, M.
Grant, R. B.
Hail, J.
Henning, C. S.
Jones, E. W.
Jones, L. B.
Kelkenney, A. A.
Kubitz, A. L.
Lurvey, D.
Mathews, G. W.
Morrison, R. A.
Nichols, H. W.
Quackenbush, A. F.
Reker, W. H.
Rowe, H. J.
Sanders, W. J.
Saunders, J. E.
Sigwalt, E. J.
Sleezer, F. W.
Smalley, J. S.
Stagg, M. V.
Sturgess, F. M.
Wendell, R. B.
Wheeler, H. M.
Williams, W.
Wolfe, E. J.

Students in Chemical Engineering

Geist, A. C.
Heath, C. S.
Heuchling, F. G.
Hoffman, B.
Jones, H. W.
Pacyna, A.
Perlstein, B.
Robinson, F. H.
Smith, L. B.
Steward, R. F.
Wight, R. A.

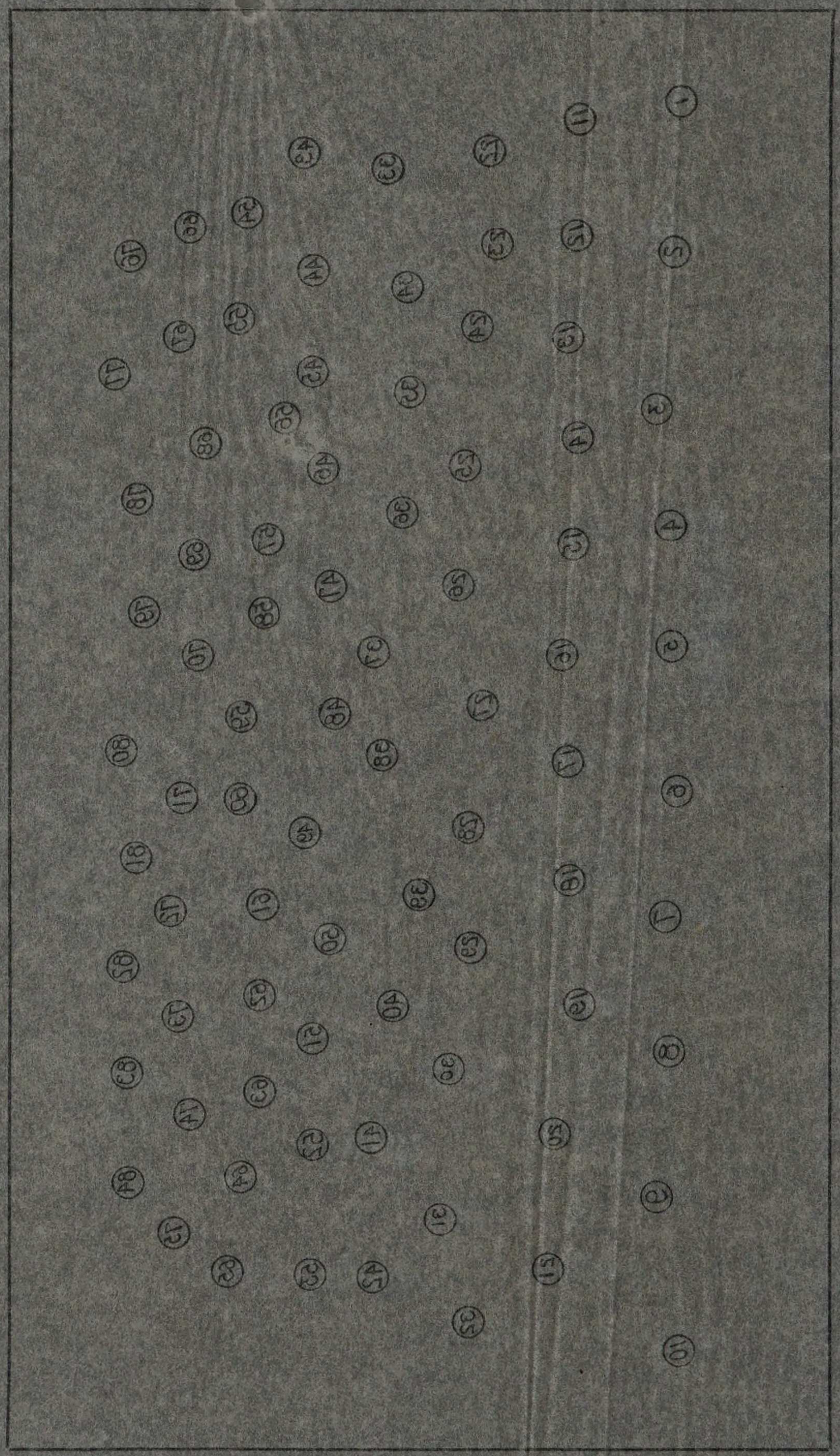
Students in Fire Protection Engineering

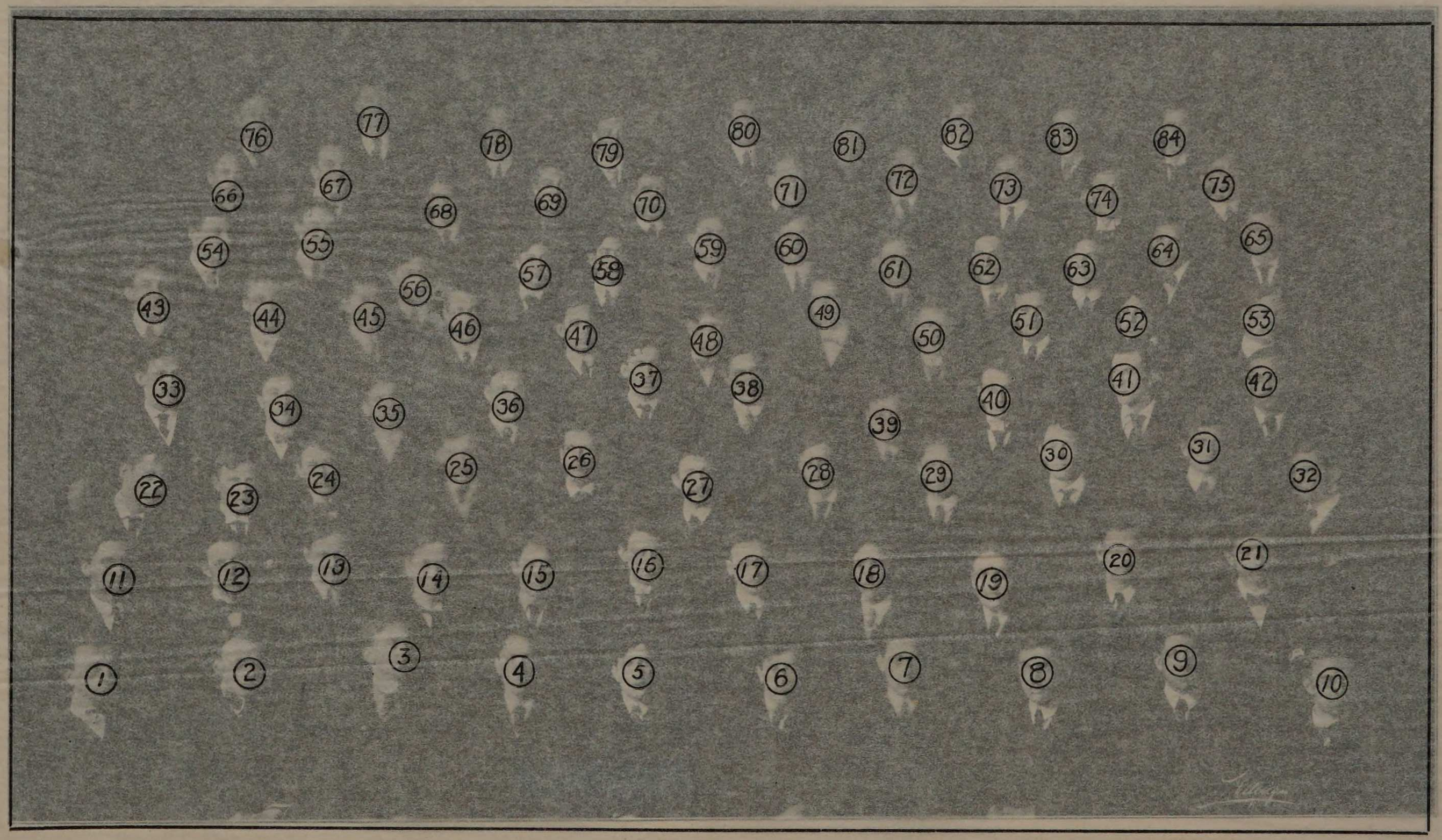
Alling, C. R.
Olsen, A.
Roush, L. C.



THE CLASS OF 1907

(Juniors)





THE CLASS OF 1907

(Juniors)

Key to Junior Picture—Numerically Arranged

1	Kubitz, A. L.	18	Jones, E. W.	35	Singer, S. C.	52	Hayden, J.	69	Smith, L. B.
2	Wendell, R. B.	19	Jones, L. B.	36	Sturgess, F. M.	53	Hayden, A., Jr.	70	Campbell, E. E.
3	Smalley, J. S.	20	Gilmore, M.	37	Clark, F.	54	Furry, W.	71	Hoffman, B., Jr.
4	Robinson, F. H., Jr.	21	Heuchling, F. G.	38	Hoffman, B.	55	Matchett, J. C.	72	Kilgore, C. E.
5	Morrison, R. A.	22	Davies, H. C.	39	Perlstein, B.	56	Banning, T. A., Jr.	73	Wachs, T.
6	Lurvey, D.	23	Hebard, W. F.	40	Nichols, H. W.	57	Quackenbush, A. D.	74	Nelson, C. J.
7	Boehmer, A. H.	24	Smith, C. U.	41	Ellett, E. H., Jr.	58	Turnbull, I. J.	75	Heinsen, G. M.
8	Dreffein, C. G.	25	Walbridge, J. T.	42	Tompkins, G. D.	59	Jackson, I. F.	76	Hooper, B. C.
9	Wight, R. A.	26	Hail, J.	43	Sigwalt, E. J.	60	James, S. V.	77	Wolfe, E. J.
10	Steward, R. F.	27	Pacyna, A.	44	Pahlman, P. J.	61	Wells, J. B.	78	Saunders, J. E.
11	Rowe, H. I.	28	Alling, C. R.	45	Sleezer, F. W.	62	Mathews, J. F.	79	Young, L. B.
12	Dunmore, G. B.	29	Roush, L. C.	46	Williams, W.	63	Dowdell, C. O.	80	Pratt, E. A.
13	Stagg, M. V.	30	Olsen, A.	47	Perkins, R. A.	64	Stanton, G.	81	Millard, C. S.
14	Badger, H. R.	31	Laubach, G. S.	48	Geist, A. C.	65	Copenhaver, H. K.	82	Hackett, J. L.
15	Kelkenney, A. A.	32	Hough, W. B.	49	Heath, C. S.	66	Wheeler, H. M.	83	Lichtner, W. O.
16	Henning, C. S., Jr.	33	Sanders, W. J.	50	Grant, R. G.	67	MacDonald, M. S.	84	Eustice, A. L.
17	Jones, H. W.	34	Ehretsman, J. L.	51	Burkholder, F. L.	68	Badger, L. H.		

Key to Junior Picture—Alphabetically Arranged

28	Alling, C. R.	48	Geist, A. C.	60	James, S. V.	30	Olsen, A.	69	Smith, L. B.
14	Badger, H. R.	20	Gilmore, M.	18	Jones, E. W.	27	Pacyna, A.	13	Stagg, M. V.
68	Badger, L. H.	50	Grant, R. G.	17	Jones, H. W.	44	Pahlman, P. J.	64	Stanton, G.
56	Banning, T. A., Jr.	82	Hackett, J. L.	19	Jones, L. B.	47	Perkins, R. A.	10	Steward, R. F.
7	Boehmer, A. H.	26	Hail, J.	15	Kelkenney, A. A.	39	Perlstein, B.	36	Sturgess, F. M.
51	Burkholder, F. L.	53	Hayden, A., Jr.	72	Kilgore, C. E.	80	Pratt, E. A.	42	Tompkins, G. D.
70	Campbell, E. E.	52	Hayden, J.	1	Kubitz, A. L.	57	Quackenbush, A. D.	58	Turnbull, I. J.
37	Clark, F.	49	Heath, C. S.	31	Laubach, G. S.	4	Robinson, F. H., Jr.	73	Wachs, T.
65	Copenhaver, H. K.	23	Hebard, W. F.	83	Lichtner, W. O.	29	Roush, L. C.	25	Walbridge, J. T.
22	Davies, H. C.	75	Heinsen, G. M.	6	Lurvey, D.	11	Rowe, H. I.	61	Wells, J. B.
63	Dowdell, C. O.	16	Henning, C. S., Jr.	67	MacDonald, M. S.	33	Sanders, W. J.	2	Wendell, R. B.
8	Dreffein, C. G.	21	Heuchling, F. G.	55	Matchett, J. C.	78	Saunders, J. E.	66	Wheeler, H. M.
12	Dunmore, G. B.	38	Hoffman, B.	62	Mathews, J. F.	3	Smalley, J. S.	9	Wight, R. A.
34	Ehretsman, J. L.	71	Hoffman, B., Jr.	81	Millard, C. S.	43	Sigwalt, E. J.	46	Williams, W.
41	Ellett, E. H., Jr.	76	Hooper, B. C.	5	Morrison, R. A.	35	Singer, S. C.	77	Wolfe, E. J.
84	Eustice, A. L.	32	Hough, W. B.	74	Nelson, C. J.	45	Sleezer, F. W.	79	Young, L. B.
54	Furry, W.	59	Jackson, I. F.	40	Nichols, H. W.	24	Smith, C. U.		

Junior Class Committees and Teams

Constitution Committee

Balthasar Hoffman — Millard Gilmore — Sydney V. James

Auditing Committee

Lorenzo B. Smith — Thomas A. Banning, Jr. — Robert A. Wight

Bowling Team

E. H. Ellett, Jr., *Manager*

C. S. Henning, Jr. — L. H. Badger — F. L. Burkholder

Albert Hayden, Jr. — L. B. Smith — J. F. Mathews, Jr.

Basket Ball Team

Geo. Laubach, *Manager*

J. T. Walbridge — Arthur Olsen — G. M. Heinsen

J. S. Smalley — C. S. Henning, Jr.

Baseball Team

(1905)

E. W. Jones, *Manager*

G. S. Laubach, *Captain*

C. S. Henning, Jr. — W. E. Schermerhorn — E. J. Sigwalt

C. F. Busse — A. Olsen — M. V. Stagg

J. F. Mathews, Jr. — E. C. Rech

Track Team

(1905)

C. U. Smith, *Manager*

J. F. Mathews, Jr. — C. R. Alling — G. F. Stanton

S. C. Singer — L. W. Bangs

Manager Baseball Team, 1906, E. W. Jones

Manager Track Team, 1906, S. C. Singer

ARMOUR
INSTITUTE OF TECHNOLOGY

CLASS

ENGINEERING LABORATORY

Report on

Experiment # 1907,

Efficiency Test of

The Junior Class .

By Ye Class Scribe .

Experiment Performed 9/03 to 6/06 .

Report Presented May 24, 1906.

Returned for Correction Not Complete.

Accepted ✓

Experiment # 1907.

Subject: The Junior Class.

Apparatus: Armour Institute of Technology Buildings.

Street # 33. and one Avenue - of the Armour type.

Ogden Field.

Numerous Text Books and various Profs.

Method: The present Junior Class, for three periods of one year each, was submitted to various financial, physical, mental, social and endurance tests. Nine financial tests were run at intervals of three months with a vacatiom every nine months--three months in length--to allow the subjects to reimburse themselves. During the course of the experiment the subject was exposed to numerous physical tests--football, baseball, basket ball, bowling, and class rushes. When in their freshman state the subject ran a musical test in the shape of a brass band at the Freshman-Sophomore Football game. A smoke determination was made at three periods, a year apart Again while in their freshman state, accompanied by many fair ones, they were saturated with art under the direction of one President. The subject was standardized socially by three functions of elaborate proportions. These were mixed among the more rigid mental tests taken regularly every three months and irregularly whenever the prof's wives had time to correct reports.

Data: After following the previously outlined "Method" the following data was obtained:--

Time.	Nature of Test.	Type.	Results.
9 - 21 - 03	Registration Day.	Financial.	235 Freshmen-$11,750 00
9 - 27 - 03	Class Rush.	Physical.	Blue and Gold (06) precipitated
10 - 16 - 03	Football Game	Physical.	06 pushed through the fence.
11 - 6 - 03	Freshman Smoker.	Endurance.	Anti-smoke Ordinance Passed Hospitals Enlarged.
11 - 13 - 03	Visit Art Institute.	Artistic	Badger draws new cover for The Fulcrum.
12 - 17 - 03	Term Examinations.	Mental.	See results of next Test.

Experiment # 1907.

Data (Continued)

Time.	Nature of Test	Type.	Results.
1 - 4 - 04	A.I.T. Benefit Day.	Financial.	180 Freshmen.
1 - 29 - 04	Freshman Dance.	Social.	Best Dance of the Season.
3 - 24 - 04	Final Exams.	Mental.	Enough said.
9 - 19 - 04	Registration Day.	Financial.	160 Sophs-$8,888.88.
9 - 27 - 04	Class Rush.	Physical.	08 demoralized.
10 - 28 - 04	Football game.	Physical.	07 - 6, 08 - 0.
11 - 4 - 04	Freshman Smoker.	Social.	"Lobster Chair" introduced.
12 - 16 - 04	- - - - - - - -	! ! ! !	- See 3 - 24 - 04.
2 - 13 - 05	Bowling Tournament.	Athletic.	07 wins from all comers.
3 - 13 - 05	Basket ball game.	Athletic.	07 - 36, 08 - 20.
3 - 15 - 05	Basket ball game.	Athletic.	07 - 41, 06 - 24.
4 - 23 - 05	Term Exams.	Mental.	Beginning class in Physics needed.
4 - 28 - 05	Sophomore Informal.	Social.	See 1-29,-04.
6 - 6 - 05	Baseball game.	Athletic.	07-10, 08-6.
9 - 18 - 05	Registration Day.	Financial.	110 Juniors-$5,546.23.
2 - 2 - 06	Junior Informal.	Social.	See 4-28,-05.
5 - 21 - 06	Junior Week.	Social.	Excellent traditions founded
6 - 12 - 06	Final Exams.	Mental.	? ? ? ? ? ? ?

Discussion: From a consideration of the preceding table of data, it may be seen that the results obtained were entirely satisfactory. The financial strains to which the class was subjected were withstood admirably, a by-product of some $75,004.00 being furnished the Institute during its three years. In most of the physical tests, the showing of the Class of 1907 was of the best, those cases in which it did not show so well being due to lack of care in regard to proper insulation.

In the test of 10-16-03 the subject under consideration forced the 06 aggregation through the fence to the tune of "Mr. Dooley," played by a brass band, which had been hired with an assessment raised in 24 hours. In a later

test of physical powers, on 9-27-04, they forced the 08 crew back, tore through its centre, and in many ways showed their superiority of make-up. The '08 men that remained were completely annihilated during the test of 10-28-04.

During this second period of their existence, the Knights of the Scarlet and Blue swept the board clean in athletics. They won marked victories from all aspiring contestants in football, basket ball, baseball and bowling. Again, in this year, they put forth the eighth Volume of The Fulcrum--larger, brighter, more successful than any of its predecessors. In this book you may judge of their continued editorial and business capabilities.

In social affairs the Class of 07 have always been leaders. The three functions that they have given, one dance each year, have been the social events of their respective years. Again the inaugurating of Junior Week, by this same class, adds another plume to their brilliant social career. At the Freshman Smoker of 1904, this class introduced the famous "Lobster Chair;" again, a year later, at the same function, the chair was used as the throne of the King of the Ancient Order of Peruvian Pfffsss.

Thus it may be seen that in all of the tests to which it was subjected-- whether physical, financial, social, editorial, athletic or intellectual-- the class of 1907 came out all right and with colors flying. It has been first and strongest in its support of Armour Affairs and has at the same time kept its own standards in the front

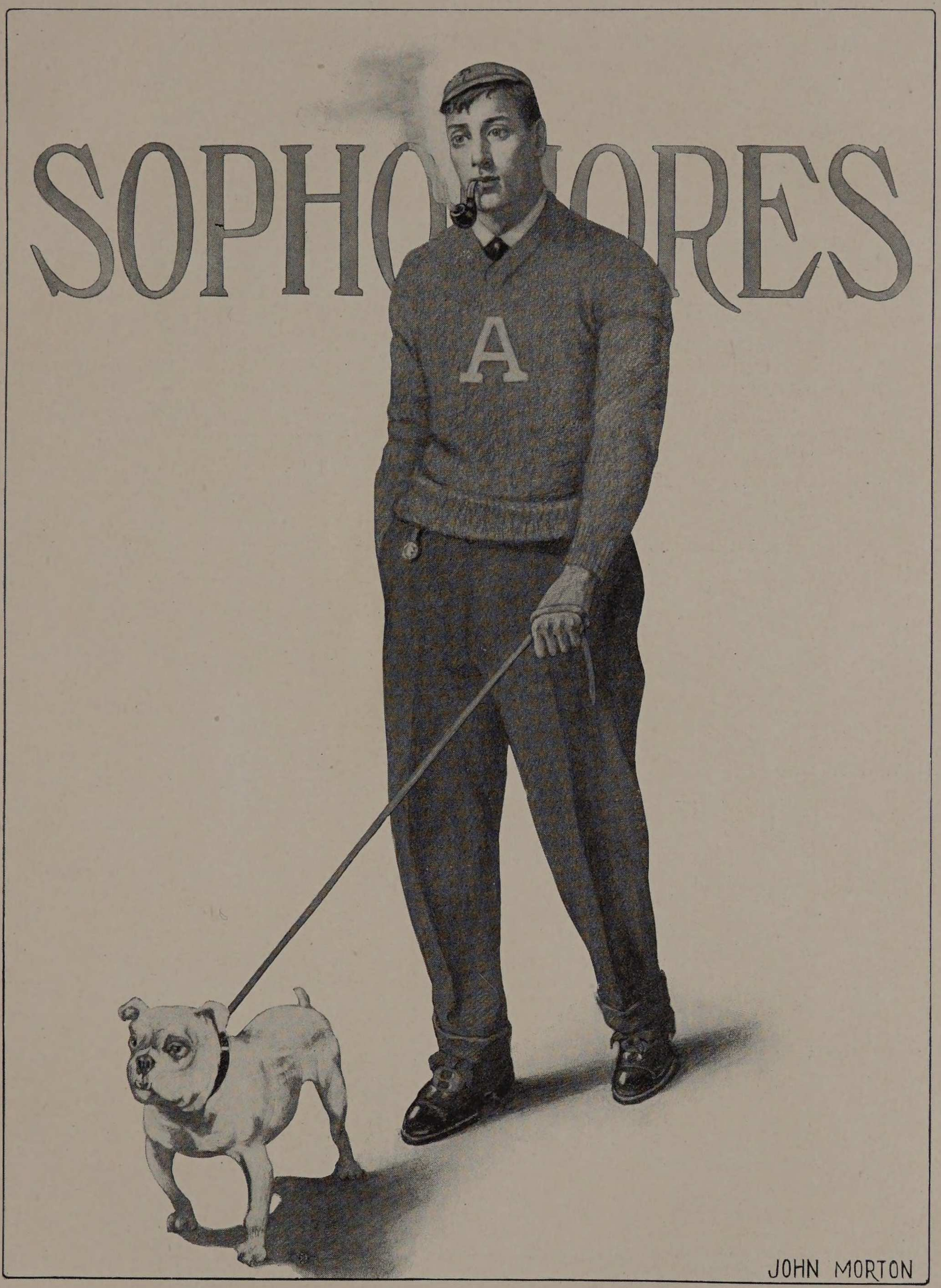
References:

"Dean's Office Reports," by H G. Clasen—Chief Recorder.

"The Fulcrum," Volume VIII, 1904-5.

"Treatise on How '07 Defeated Us," Class of 1908.

"The Integral," Volume VIII, 1905-06


SOPHOMORES
A
JOHN MORTON

The Class

of

Nineteen Hundred and Eight

SOPHOMORES

COLORS: *Scarlet and Black*

YELL: "*You bet we're great!*
Armour Tech. '08"

OFFICERS

H. W. MARTIN, *President*

A. A. DITTMAR, *Vice-President*

J. E. MONAHAN, *Secretary*

L. B. STARIN, *Treasurer*

A. FRANCIS, *Sergeant-at-Arms*

Integral Representatives

M. T. JONES, JR. GEORGE E. JAQUET

Fulcrum Representatives

C. O. FRARY E. ANDREWS

Social Committee

A. A. DITTMAR J. S. TOWNSEND AUSTIN CRABBS



THE CLASS OF 1908

(Sophomores)

List of Members
Class of Nineteen Hundred and Eight

Students in Civil Engineering

Anderson, H. C.
Berry, F. A.
Buhmann, G. G.
Cerny, J.
Converse, W. I.
Dittmar, A. A.
Douthitt, M. J.
Eaton, A. W., Jr.
Ellington, H. S.
Flodin, R. C.
Frary, C. O.
Harger, K.
Heidenreich, W. L.
Holmboe, R.
Kean, G. P.
Larson, R. L.
Leyden, T. J.
Matthei, H. R.
Meyer, G. J.
Nitschke, P. H.
Packer, C. S.
Pollak, E.
Powell, E. W.
Pratt, E. A.
Rawn, I. L.
Sawyer, J. E.
Schram, I. H.
Stevens, R. L.
Sturtevant, R. W.
Thompson, M.
Trinkhaus, W., Jr.
Urson, F. J.
Webb, A. R.
Zimmerman, S. L.

Students in Mechanical Engineering

Barret, S. O.
Boblett, K. M.
Boughton, N. J.
Buell, R. D.
Chamberlain, J. P.
Crabbs, A.
Doyle, H. F.
Ebner, A. J.
Francis, A. L.
Friedlander, L.
Friedman, E.
Glos, H. V.
Holmes, W. E.
Houghton, E. W.
Hurd, C. G.
Loofborough, J. S.
Monahan, J. E.
Morgan, W. C.
Mulloy, G. B.
Nadler, H.
Parry, G. G., Jr.
Pettibone, I. F.
Starin, L. L.
Stillman, E. H.
Townsend, J. S.
Wilson, C. L.

Students in Electrical Engineering

Adams, E. W.
Anderson, M. J.
Arthur, R.
Beaty, E. M.
Binder, G. A.
Bliss, H. D.
Bremers, H. J., Jr.
Brooke, W. E.
Buehler, M. A.
Collins, F. C.
Cornwell, A. B.
Darling, J. T.
Dunbar, W. J.
Foster, S. T.
Grenoble, H. S.
Jacobson, J.
Jaeger, N. M.
Jaquet, G. E.
Johnson, A. R.
Kauffman, J. S.
Lane, J. M.
Langstaff, C. R.
Lawrence, V. E.
Lewis, R. L.
Meyer, O. C.
Morey, C. R.
Mott, H. J.
Newman, O. R.
Paul, H. J.
Petty, E. W.
Rasmussen, E. H.
Raymond, A. B.
Richardson, J. R.
Rosenberg, H. R.
Simmons, L. E.
Souther, S. A.
Thompson, G. C., Jr.
Vacek, V. F.
Vore, M. P., Jr.
Valerio, J. M.

Students in Chemical Engineering

Andrews, E. E.
Chatain, P. E.
Ettenson, I. E.
Holmberg, E. T.
Jones, M. T., Jr.
Kewley, R. E.
Klooz, E. G.
Lemon, De, H.
Martin, H. W.
Patrick, W. W.
Sherman, R. T.
Teesdale, C. H.
Vanderkloot, M., Jr.
Winser, R. A.
Wilsnack, G. W.

Students in Fire Protection Engineering

Eyers, W. E.
Lunak, S. E.
Thompson, F. L.

Students in Architecture

Babcock, F. H.
Berger, L. T.
Botteron, C. I.
Bowman, C.
Broline, O. L.
Buckley, R. C.
Hansen, C.
Kalter, W. I.
Lee, H. V.
Livermore, G. R.
McEldonney, G. R.
Ostergren, R.
Parmele, W. B.
Reed, R.
Schmidt, C. W.
Schulze, C. E., Jr.
Thompson, M. L.
Wells, T. D.
Wickerham, A. G.
Wolters, G. F.

SECOND ANNUAL

STREET FAIR

AND

CARNIVAL.

at

ARMOUR CROSS ROADS

520 DAYS AND NIGHTS

commencing

September 20, 1904.

Amusements furnished by

NAUGHTY-EIGHT KARNIVAL KREW.

☞ Bringing The Grandest And Most Magnificent Array Of Attractions Ever Seen Under The Sun.

☞ Two Special Trains Are Required To Bring This Stupendous Collection Of Amusements To Your City.

POSITIVELY THE GREATEST STREET FAIR EVER HELD IN THE WEST.

Continual Performance—Rain or Shine, Beginning Daily at 8:30 A. M. and 1 o'clock P. M.

Season Tickets—Forty Dollars (and some extra).

Armour Cross Roads Courier Steam Print.

(*Special to the Armour Cross Roads Courier.*)

The huge crowds that thronged our Streets during the Carnival, are a good indication of the success of the Armour Cross Roads Street Fair, and reflect much credit upon the "Naughty Eight Karnival Krew." We regret that lack of space prevents us from giving more than a limited account of so great a spectacle.

As a foreword we present a few notes concerning the history of the "Krew." The beginning of this remarkable organization dates from September 20, 1904, when the members were curiously drawn together from all parts of the United States by force of circumstances. They were made the prey of a certain '07 element in the city of Chicago. The latter subjected the newly arrived to the performance of humiliating stunts, which were promptly resented. These struggles brought to light the many inherent qualities of the heterogeneous collection of new-comers, with the result that they banded themselves into a firm organization which ultimately became the class of the "Krew."

One of the most notable shows on the street bore the caption "Twelve Hours Before the Rush." Here is vividly depicted the heart-rending horrors of frantic creatures—called Freshies—as they are dragged from peaceful slumbers and cast into the impenetrable gloom of Armour Flats dungeons. Directly across the street was presented "The Struggle for Life," wherein was shown the realistic conflict between Skill, on the one hand—in the guise of the Sophomores, and on the other hand—Might, in the person of vast superiority in point of numbers, of the "Freshies." The struggle

reminded one of an ancient battle, as one phalanx after another was hurled against the '09 standards. Long waged that battle, and fierce, Skill and Organization showing up well against Outnumbering Hordes.

Another feature that drew crowds was "The Museum of Stunts." Here were found such celebrities as Schram, Meyer and Nitschke running a lunch-eating and gum-chewing contest; Trinkhaus and Urson demonstrating the superiority of chalk over bullets as projectiles of warfare; Wilsnack and Martin exhibiting the wonderful range of their voices as adapted to the needs of Physics Lectures. An attraction which proved to be a strong drawing card was the "Downfall of Noble Robespierre." It is the conviction of everyone who has seen the show that the Campbell's Calculus, when properly applied, is even more effective than jiu-jitsu. There were a host of shows of equal merit, among which could be mentioned "To the Pole with the Radics" and "The Betrothal of Fairy Bothren."

Among the shows was a short comedy in five acts, entitled "Civil Location," which stands unsurpassed in the histrionic field. A brief synopsis follows:—

Act I.	*Scene 1.*	Instructor makes his bow.
Act II.	*Scene 1.*	Enter dog.
	Scene 2.	Instructor refuses to teach quadrupeds.
	Scene 3.	Exit dog, via Sawer (Route).
Act III.	*Scene 1.*	Instructor's desk drops out of sight (vanishes)
	Scene 2.	Sewing machine left on trial.

ACT IV. *Scene 1.* Desk still at large. Teacher addresses students from pulpit.

Scene 2. View in the Garden of Eden.

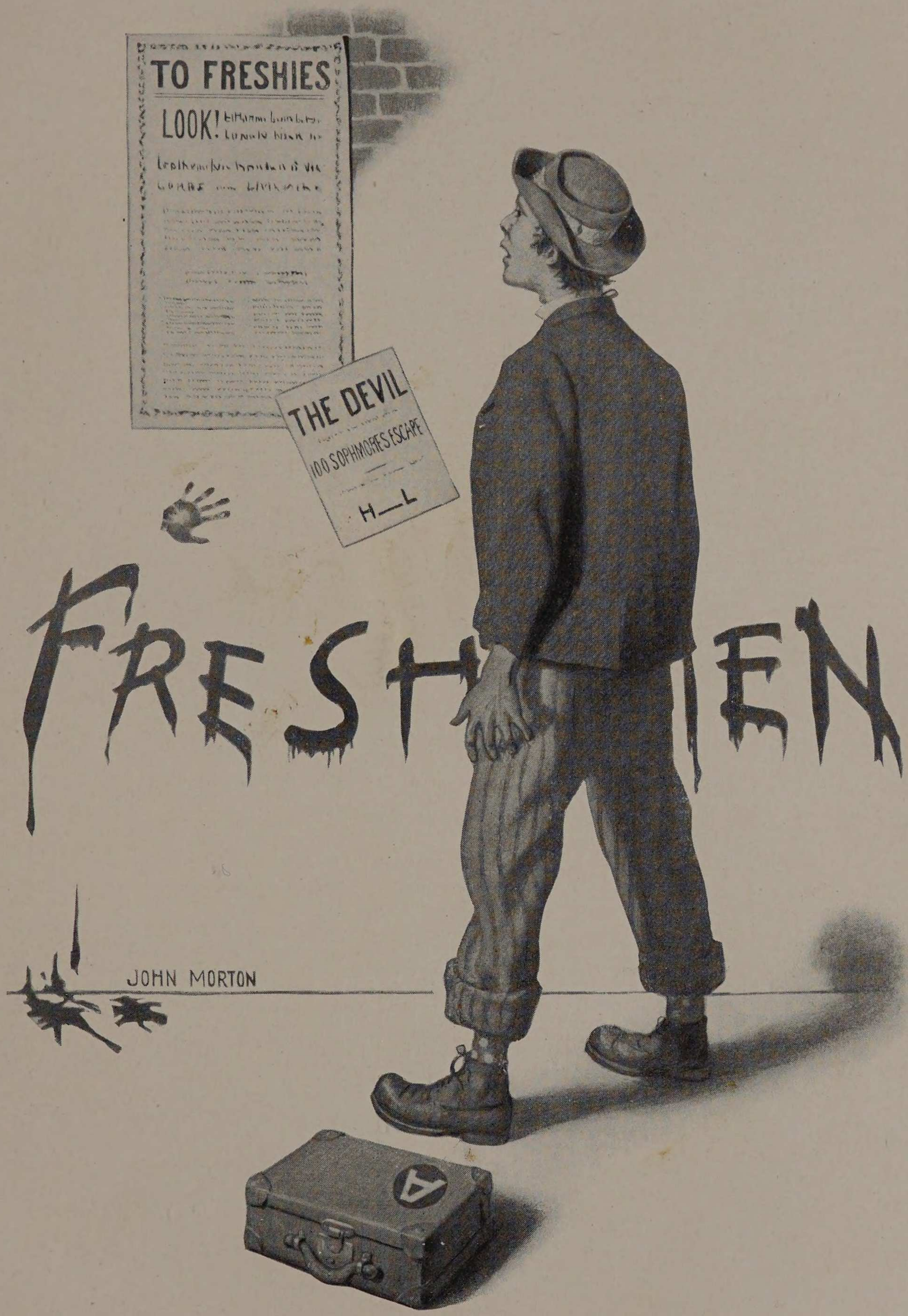
ACT V. *Scene 1.* Instructor indignant. Complete holiday for the students. (Hurrah ! ! !)

Scene 2. The taming of the students. Civil's will now eat from the instructor's hand.

(*Curtain.*)

Aside from the shows there were many unique booths, managed by as many men of renown. There was "Juba" Brooke, enunciating the benefits of life in Utah; "Hank" Bremers exhibiting his newly patented alarm clock, for bringing the cows home at milking time; and Richardson showing a *direct current* oscillograph. Then on the other side of the street was "Wizard" Lewis, expounding the merits of pipes that are hollow; "Jokesmith" Jones, forging out rhymes and jokes; and "Hello Herbie" Martin advocating matrimony by Correspondence methods. Farther up the street could be seen Winser, distributing samples of Feeda Carbon Paper; "Literary Extravaganza" Eyers and "Test-tube" Stillman getting out an extra of the "Carnival American," "Doctor" Pettibone discoursing on the merits of the incomparable Kansas City; and "Paducah" Thompson demonstrating the unique qualities of Kentucky lunar nectar.

All considered, financially and otherwise, the Street Fair was a huge success, and far overstepped even the most sanguine expectations. All of the business men report that trade was so good that the site near Stem's Grocery Store has already been leased for succeeding similar affairs.


TO FRESHIES
LOOK!
THE DEVIL
100 SOPHMORES ESCAPE
H—L
FRESHMEN
JOHN MORTON
A

The Class
of
Nineteen Hundred and Nine

FRESHMEN

COLORS: *Blue and White*

YELL: *"Rah! Sis! Rah! Armour Tech.*
'09! '09! '09! Rah!"

OFFICERS

V. H. WHIPPLE, *President*
W. A. HOWARD, *Vice-President*
H. W. YOUNGSBURG, *Secretary*
E. D. CRANE, *Assistant Treasurer*
W. A. RICHARDS, *Sergeant-at-Arms*

Integral Representatives

J. S. HARVEY, Jr. H. L. FRISBIE

Fulcrum Representatives

J. A. JONES D. D. DICK

Social Committee

D. D. DICK W. A. RICHARDS C. DAVIS



THE CLASS OF 1909

(Freshmen)

List of Members
Class of Nineteen Hundred and Nine

Students in Civil Engineering

Anderson, A. E .	Ephgrave, H. E.	Jacobson, A.	Overstreet, R. M.	Swihart, J.
Anderson, A. G.	Frisbie, H. C.	Johnson, R. W.	Peterson, I.	Taylor, A. C.
Chamberlin, E. W.	Gill, H. G.	Lesage, H. A. T.	Reynolds, R. L.	Uhlendorf, E.
Currier, C. L.	Hagelin, J. R.	Loring, E. M.	Richards, T. E., Jr.	Walther, R. A.
Dawson, M.	Hammond, E. K.	Meyer, F. C.	Root, H. R.	Wappler, E.
Deveney, W. J.	Harvey, J. S., Jr.	Newman, R. M.	Sangdahl, A. E.	Watt, R. J.
Devereaux, R.	Hough, H. R.	Niestadt, F. A.	Schlinz, H. W.	Wolters, F. C.
Ebert, A. A.	Howell, I.	Oberg, M. L.	Seiler, R. A.	Young, I.
Edwards, W. H.	Ivison, G. E.	Ogle, W. F.	Speer, J. T.	Youngberg, H. W.

Students in Mechanical Engineering

Anderson, A. R.	Ellett, A. M.	Kate, C. R.	Mahler, H.	Scott, F. J., Jr.
Barry, J. C.	Evans, R. T.	Kinzel, A. J.	Mattison, L. C.	Shedd, M. C.
Beckman, H. E.	Fisher, A. W.	Kizer, L. P.	Mayes, F. H.	Spitzglass, J.
Blackford, J. O.	Ford, F. E., Jr.	Krill, H.	Metz, G. P.	Steward, W. H., Jr.
Bolte, E. E.	Freund, E.	Lettermann, G. D.	Rahr, U.	Warren, F. P.
Bunge, L. W.	Fry, W. L.	Lindsay, C. M.	Raymond, A. W.	Whipple, V. H.
Conlin, W. F.	Gould, C. J.	McAuley, B. F.	Ryan, H. H.	Young, A. G.
Dekker, H. G.	Grassby, G. A., Jr.	McKarahan, E. V.		

Students in Electrical Engineering

Ahern, J. F.	Dalton, R.	Glaspell, B.	Loeb, S. A.	Rose, H.
Aronian, J. A.	Dennis, C.	Graham, F.	McElkiney, L.	Sackheim, S.
Bassett, J. B.	Deverman, A.	Hall, A. G.	McKinney, L. A.	Sackman, R. H.
Benson, O. R.	Dick, D. D.	Hamilton, E. B.	Moyses, H. E.	Schewel, A. M.
Bent, H. D.	Dicks, E. P.	Haydon, W. E.	Nelson. E. D., Jr.	Schueler, W.
Bexton, L.	Downton, P.	Hein, K.	Ostergreen, H. N	Stadeker, G. I.
Blackford, N. A.	Dunham, J. L.	Hirschfeld, G.	Peters, W.	Sumkowski, A. J.
Bollander, P. A.	Durand, F. A.	Johnston, C. A. P.	Pinkerton, E. M.	Sweney, C. H.
Bouslough, R. W.	Ehrlich, G.	Jones, C. H.	Pratt, H. S.	Trainor, J. B.
Burstrom, S.	Evans, T. E.	Kahn, L.	Preston, H. F.	Tregay, J.
Carroll, W.	Fey, W.	Lemmon, R. H.	Prince, W. H.	Van Etten, F. C.
Chambers, G. A.	Fitch, J. E.	Lessel, R.	Richards, W. A.	Waters, G. M.
Crane, E. B.	Forbes, E. R.	Levitan, S.	Riker, A. C.	Watson, R. A.
Curtis, H. L.	Ford, T. C.	Lockwood, W. C.	Ringler, C.	Zanzig, F. C.

Students in Chemical Engineering

Aurelius, S. J.	Birchard, R.	Howard, W. A.	Parker, R. M.	Ryan, J. P.
Ballagh, J. C.	Guthrie, J. F.	Kelbach, L.	Rodgers, T. T.	Smith, H. C.
Beifeld, E. L.	Henderson, E. L.	Mueller, C. W.	Rosenblatt, A.	Wiard, W. H.

Students in Fire Protection Engineering

Brownlie, J. R. Oberfelder, W.

Students in Architecture

Anneke, M. C.	Ericsson, W. K.	Hughes, F. J.	Payton, F.	Waldo, R. D.
Buckett, A. C.	France, R. F.	Jones, J. A.	Smith, E. S.	Wilder, R. D.
Bunker, R.	Greenebaum, S.	Miller, E. F.	Von Gunten, O.	Wolff, H. J. D.
Chambers, H. C.	Hagerup, L. O.	New, M.	Waldo, A. T.	Yule, C. L.
Davis, C. G.				

Students in Telephone Engineering

Cohen, B. M. Wilder, F. B.

Students in General Science

Kramer, R. Menkin, J. I.

Elements of Descriptive Classometry

Considering Especially the '09 Phenomenon with Regard to Rushometrical Projections, Footballography, Shades and Shadows of Embryo-Smoker-optics and Dancetology . . . .

Published by
FRESHMAN & COMPANY
Armour Institute of Technology
CHICAGO

'09-OGRAPHIC PROJECTIONS

Preliminary Definitions

1. Descriptive Classometry is that branch of successful class career which has for its object the collection of historic data and the explanations of the methods employed, in forming the history of the '09 Class by the bunch.

2. The point at which the eye (the Sophomore's) is situated is called the point of sight.

3. The imaginary line connecting the point of sight with the object (the Class of 1909) is called the line of sight.

4. When the point of sight and the object get connected, that is, when there is a line of sight joining them, there results a great struggle, of either an athletic, mental or social nature. Up to the present time there have been several "lines of sight," all of course with the same result—partial or total defeat of the Sophomores with accompanying honor to the standards of '09. This is termed "09-OGRAPHIC" projections.

5. The nature of this treatise is to show the origin and rapid progress made in the development of '09-Ographics.

Construction of the Elementary Problems

6. Problem I.—In a given rectangle to mass 180 Freshmen and by revolving in a positive direction to show the Sophomore plane in its true shape, namely, that of a warped surface.

Construction based on Fig. 1.

Analysis. If with a powerful unit made of Freshman Elements a cone of revolution be constructed, and with the apex following the trace (dust from the heels) of a plane group of Sophomores clustered about a bag, and pressure brought to bear on the base of the cone the following action will result: The Sophomore plane will, in its true shape and projections, be transformed to a warped surface.

Construction. On September 26, 1905, the Freshmen met the Sophomores in the annual rush held on Ogden Field. Before the tactics of the Sophomores were understood, the Freshmen were momentarily pushed back. However, as the crude tricks of the Sophomores began to dawn upon the superior minds of the '09 forces, the latter gained ground steadily and with a grand rally sent the Red and Black standards scurrying northward, finally flattening them nicely against the wall of the Refectory.

7. Problem II.—With a given force to overcome an opposing force,

and, by means of '09-Ographic passes, to project a given spheroid beyond a line connecting two given points.

For construction refer to Fig. 2.

Analysis. The given force (the Freshman team), by means of a few simple tactics, completely outgeneraled the opposing force (the Sophomore team), and by a series of revolutions and straight projections caused the latter great embarrassment. Several large Freshman units, traveling along rectilinear directrices, caused the spheroid to be projected between the two given points, thus gaining much for their adherents.

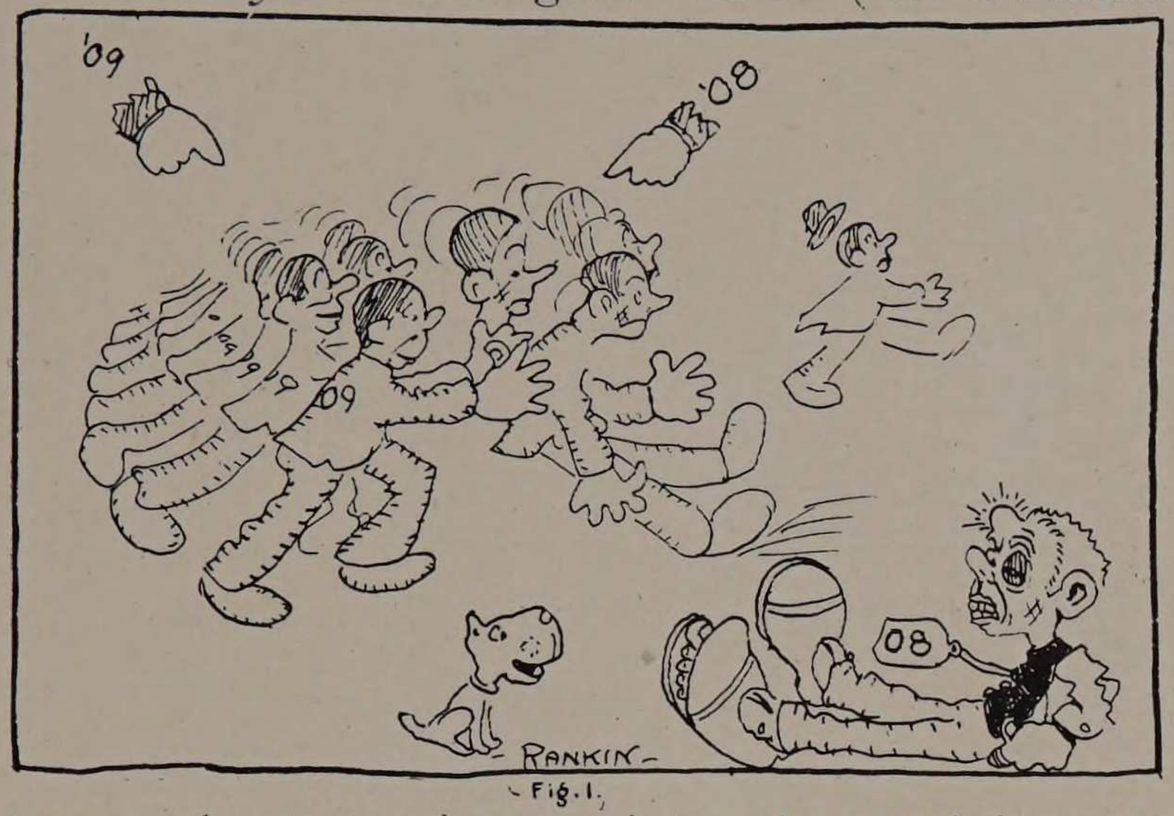


Fig. 1.

Construction. On November 3, 1905, the annual Freshman-Sophomore football game on Ogden Field resulted in a sweeping victory for the Freshmen. The Sophomores failed completely in their frantic attempts to score, and at the close of the game the Freshmen had 23 points to their credit to a large cipher for the '08 aggregation.

8. Problem III.—Given a crowd of embryo college men, a large number of cob pipes and a sufficient quantity of fine cut tobacco. To find first, enough matches to keep Freshmen supplied, and second, a sufficient quantity of stories, speeches and josh to keep things on the move.

Fig. 3 shows details.

Analysis. The first part of the problem was rather difficult but the upper classmen being very kind and generous this was overcome. As to the second division of the problem the Committee in charge was greatly benefited by a strong program, all numbers of which were run off with scheduled regularity. Among the helpers in this part were the "Dr.", Dean R., Profs. Coffeen, Colledge and Leigh, to say nothing of the King of the Ancient and almost extinct order of Peruvian Pfffsss, who, with his

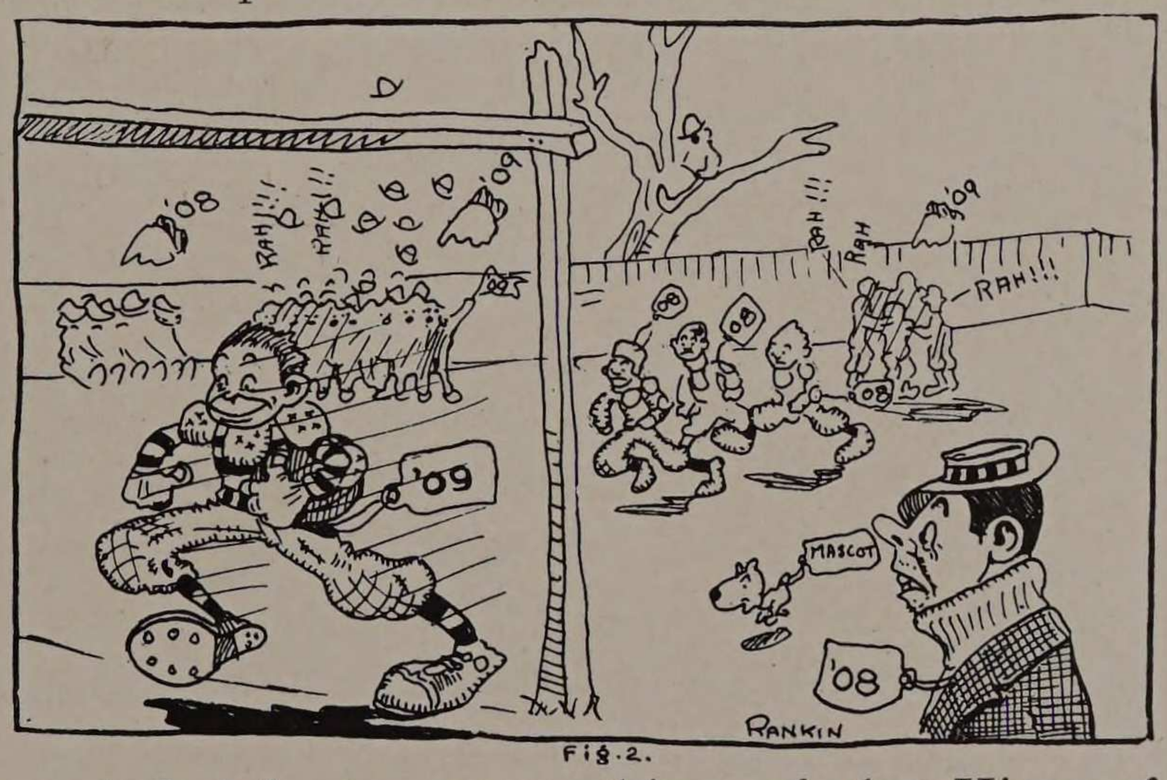


Fig. 2.

retainers, forced his entrance past the blue coats, on guard at the door.

Construction. On the evening of November 10, 1905, the Freshmen were very heartily welcomed into the fellowship of the A. I. T. by the upper classmen and some of the faculty. There were many interesting speeches and a horde of good stories recounted. As the evening progressed the smoke thickened and with it the hilarity of the crowd became more intense. Soon (about 12 g. m.) some of the tender Freshmen became visibly affected by the patheticness of the occasion and it was but a little later that the upper classmen decided that the smoke ordinance would be in danger of violation if things were kept up longer and so things were terminated by a grand rush for personal effects at the check room, several Freshmen fainting in the midst of the confusion.



Fig. 3.

9. Problem IV.—On a given evening to gather together 125 couples at the Colonial Club, and, aided by a delightful orchestra, to describe a series of unclassified curves on a smooth plane surface.

Let the construction be as shown in Fig. 4.

Analysis. By means of carriages and other modes of conveyance to assemble the given number of couples at the required meeting place. This was efficiently carried out. The succeeding part of the problem was carried out in a most approved fashion by applying the well-known principles of Dancetology.

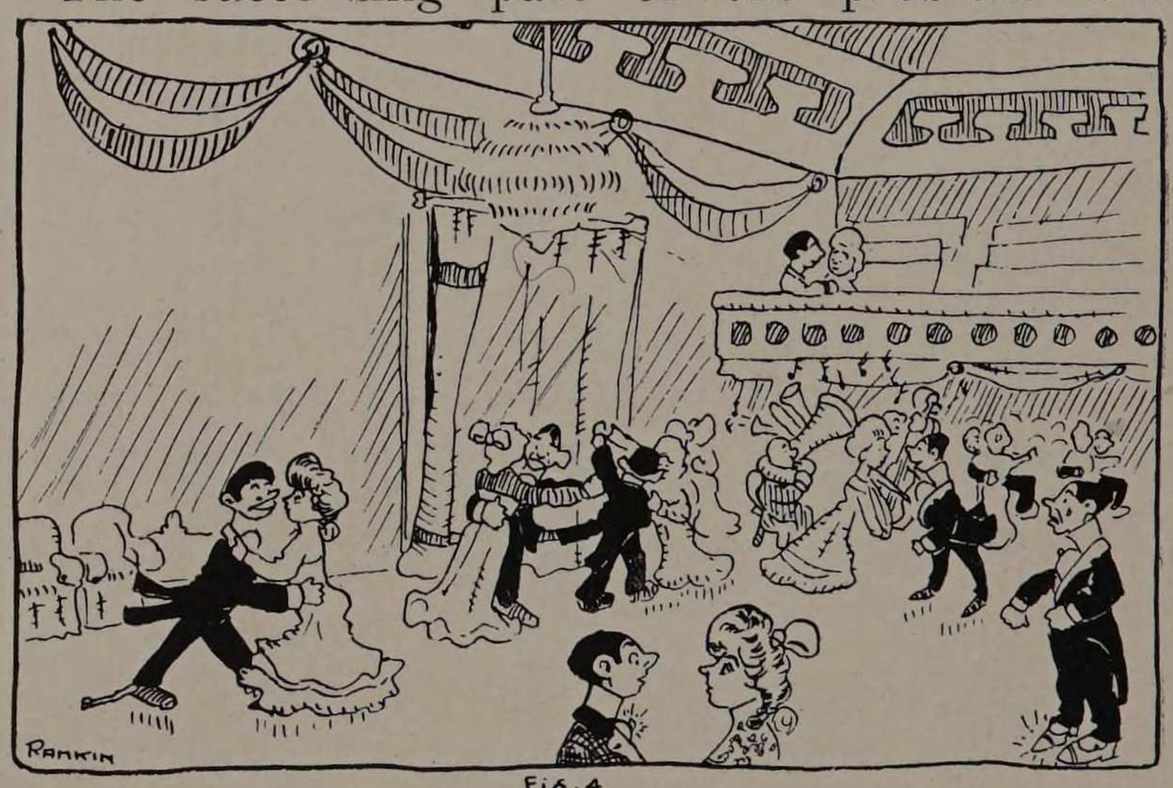
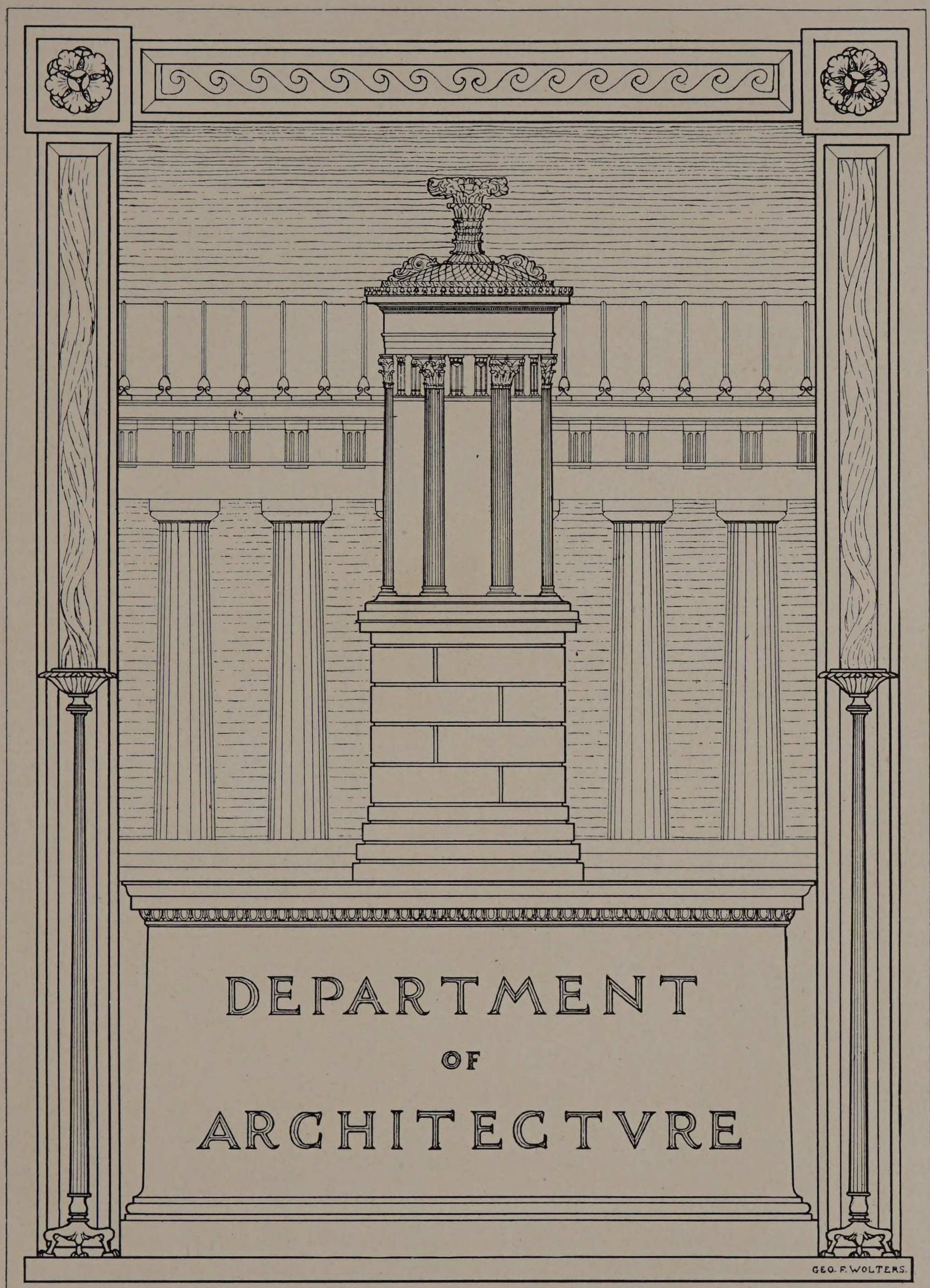


Fig. 4.

Construction. The Freshman Dance, which was the first social attempt of the Class of 1909, was given at the Colonial Club on the evening of March 2, 1906. Lawrence and his orchestra produced the delightful music to which the numerous unclassified curves were generated by the assembled couples. Everyone was of the opinion that the Class of 1909 had proven itself a most charming host.


DEPARTMENT
OF
ARCHITECTVRE
GEO. F. WOLTERS.

Department *of* Architecture
THE ATELIER

COLORS: *Bronze and Olive Green*

List of Members

Class *of* 1906

Edwin Fraser Gillette, *Massier.*

Cook, Norman W.
Gillette, Edwin F.
Johnson, J. Carroll
Layer, Robert

Class *of* 1908

William Irwin Kalter, *Massier.*

Babcock, Fred H.
Berger, Lawrence T.
Botteron, Clarence I.
Bowman, Carl F.
Broline, Olaf L.
Hansen, H. Chris
Lee, Harry V.
Livermore, George R.
McEldonney, George R.
Ostergren, Robert
Parmele, Walter B.
Schulze, Carl E.
Thompson, Maynard L.
Wells, Frederick D.
Wickerham, Adam G.
Wolters, George F.
Wuehrmann, William G.

Class *of* 1909

Fred Joseph Hughes, *Massier.*

Anneke, Marcel C.
Buckett, Arthur C.
Bunker, Ralph G.
Chambers, Harold C.
Davis, Charles G.
France, Roy F.
Green, Mont J.
Greenebaum, Samuel
Von Gunten, Orlando
Hagerup, Leonard O.
Jones, John A.
Miller, Earl F.
New, Matthew
Payton, Frank N.
Smith, Earl S.
Waldo, Alfred T.
Yule, Clarence L.



THE ATELIER

1906

Report of the Commission of Exploration and Research of the University of Armour, May 27th, 2556

It will be remembered that early in January, 2555, at a joint meeting of the Trustees and Faculty of the University of Armour, it was decided to authorize a Commission of Exploration and Research. The duty of this Commission was to gain all information possible concerning a department of the school which flourished some time in the 18th or 19th centuries. This department was known as the "Atelier," and it was supposed to have held its sessions in a once famous building, known as the Art Institute, located in Chicago, a small village in Central North America. As this was the Architecture Department of the University at that time, it was decided to place the work of this Commission in the hands of Prof. Shattuck, the well-known engineer; Messrs. von Holst and Tallmadge to act as his assistants, both being authorities on antique architecture. After somewhat over a year had elapsed they forwarded a report, dated at their camp—May 27th, 2556. As the report was, of necessity, rather long, only an abstract of it will be presented here:

"After much preliminary excavation, we finally located the building, known as the Art Institute. The north wing was in a very good state of preservation, while quite the reverse was true of the south wing, especially in some of the upper rooms.

"In one room on the third floor of the north wing we found a large collection of architectural drawings, some of which are excellent specimens. Among them is a splendid example of the Gothic, by one Thompson; some drawings by a certain Wells, bearing the title 'Illustrations of the Doom'—probably intended to mean something similar to our present dome. Again, there were 'A Forest of Columns' by a McEldowney, 'Nice Little Effort' by one Botteron, a drawing showing the 'Italian Feeling' by a certain Wolters, a poster effect by a Babcock and some rare water-colors by one Berger.

"In one of the well preserved lockers were found some old records which threw some light on some of the members of the 'Atelier' in about the year 1906. From a perusal of these records we learned that there was one Gillette, an authority on Egyptian Architecture; Cook, a man a ten inch rule; a certain Kalter, posessed of a deep bass voice, and a Hanson and Wickerham, who could stand about three with their meals. Further research found mention of one Broline, a hobbiest on cement houses; Livermore, who required a letter every day; one Hagerup, the originator of the potato-bug moulding, and Yule, of Commandant fame (accent on the *Common*).

"While, as a whole, our work has progressed very satisfactorily, yet there are still some questions which perplex us. Among these are: Why does Layer spend so much time down stairs? and Why does Jones insist on getting a book from the library every day? Nevertheless, by diligent perseverance we have hopes of clearing up all of these hazy points."

ACADEMY.



The Scientific Academy

of

Armour Institute *of* Technology

33rd Street *and* Armour Avenue

Chicago, Illinois

Founded 1892

by

Philip Danforth Armour

COLORS: *Blue and Old Gold*

YELL: "*A. S. A. Hoorah! Hoorah!*
A. S. A. Hoorah! Hoorah!
Hoo-rah! Hoo-rah!
Armour Academy
Rah! Rah! Rah!"

The Senior Class

A. S. A. 1906

COLORS: *Blue and Silver*

YELL: "*Rah! Rah! Rah!*
Rah! Rah! Rix!
A. S. A.
'06."

OFFICERS

W. C. Bruce, *President.*
C. Boyle, *Secretary and Treasurer.*
William Hill, *Vice-President.*
J. W. Aymar, *Sergeant-at-Arms.*

Integral Representatives

William Hill
C. Boyle, Jr.

Fulcrum Representatives

William Hill
E. Vynne
Glenn Schafer

List *of* Members

Anderson, C. M.
Aymar, J. W.
Boyle, C., Jr.
Bristol, G. C.
Bruce, W. C.
Budlong, E. H.
Burke, O. S.
Byers, A. A.
Caldwell, J. W.
Chapman, R. O.
Clarke, S. W.
Corboy, W. J.
Crichton, H. N.
Day, R. G.
Downey, L. S.
Dunlap, A. M.
Emin, G.
Gentry, F. E.
Germain, S. E., Jr.
Hammond, E. K.
Heyn, L. A.
Hill, F.
Hill, W.
Hungerford, W.
Johnson, E.
Jones, M. E.
Kellner, O. R.
Kloman, R.
Lehman, B. W.
Liebenstein, H.
MacKenzie, J. A.
McMullen, E. W.
Marx, C. H.
Moore, H. J.
Munoz, F. J.
Mueller, C. W.
Narozny, J.
Neville, W. J.
Otis, S.
Pay, A. E.
Pfaelzer, F. M.
Pontious, W. W.
Scott, F. J.
Shafer, G. A.
Smith, S. M.
Spierling, A. O.
St. Clair, F.
Thatcher, E. A.
Thatcher, W. C.
Tachappat, W.
Vynne, E.
White, V.
Zeisler, L.

History *of* the Senior Class *of* the Academy

The Academy Class of 1906 was organized in the early part of 1905 with the assistance of Professor Leigh. The choice of officers at this first meeting was especially fortunate, Bristol being elected president, and Bruce being elected vice-president. Under the efficient government of these two officers the class showed signs of developing into an enthusiastic and helpful organization. As the year progressed they exhibited unusual ability on the athletic field; their most notable accomplishment in this direction being the winning of the class game in basketball from the strong '05 team.

Owing to the manner in which '05 broke the reign of the long-standing social customs of the Academy, '06 though it wise to follow their example by not undertaking a formal social event.

The Senior year was begun by each member of the class determining to take away a diploma with him at its conclusion. The first class meeting of this year resulted in the election of W. C. Bruce as President, William Hill as Vice-President, and C. Boyle, Jr., as Secretary and Treasurer. These officers have been very proficient in the performance of their duties and have done much to keep up the spirit of the class.

In this, our last year at Armour Academy, we have undergone a considerable change. Devoting ourselves more to our studies we have assumed somewhat of the dignity becoming a graduating class. This has caused us to withdraw from our accustomed activity in athletics and other fields of student enterprise. Yet, as our graduation day approaches, we feel that ours has been a worthy part in the history of the Academy during the past three years. Many of us, while feeling that we have completed one task, in our Academy course, nevertheless are looking forward to entering the college as members of the Class of 1910.



THE CLASS OF 1906 — A. S. A.

(Seniors)

The Junior Class

A. S. A. 1907

COLORS: *Maroon and White.*

YELL: *"Rah! Rah! Rah! Rah! '07 come!*
Rah! Rah! Rah! Rah! '07 come!
Rah! Rah! Rah! Rah! '07 come! Rah!"

OFFICERS

G. F. Mitchell, *President*
H. J. Smith, *Secretary and Treasurer*
T. S. Davies, *Vice-President*
J. L. Hales, *Sergeant-at-Arms*

List of Members

Abel, G. W.
Ahern, A. A.
Anderson, L. C.
Bartusck, J. J.
Basch, R. J.
Beck, C. E.
Beech, C.
Buckingham, R. W.
Byers, C.
Canman, E.
Cook, H. D.
Crawford, E. H.
Davies, T. S.
Dressen, R. R.
Driver, A.
Eisendrath, D. B.
Furey, J. J.
Geisler, R. J.
Goldberg, M.
Goold, C. R.
Gray, R. L.
Hales, J. L.
Henrichs, H. W.
Hoadley, E.
Holmboe, W. F.
Hutchinson, R. M.
Hynes, P. R.
James, G. B.
Johnson, H. S.
Johnson, J. B.
Jones, F.
Kiley, L. D.
Koestner, F.
Kroscher
Larkin, E.
McGlashan, R. B.
Macomber, D. M.
Maguire, F. V.
Mann, C. A.
Mead, G. F.
Miller, R. C.
Mitchell, G. F.
Novander, E.
Osmena, M. V.
Parker, S. R.
Perkins, H. R.
Pettibone, G. D.
Ray, W.
Rutledge, W. A.
Smith, H. J.
Steuer, G. H.
Sullivan, E. B.
Ufer, H.
Vanderkloot, A.
Van Keuren, E. E.
Wolte, A. W.
Wylie, P. E.
Young, C. D.


FRATERNITIES
W.S. Lederback

The Greek Letter Fraternities

represented at

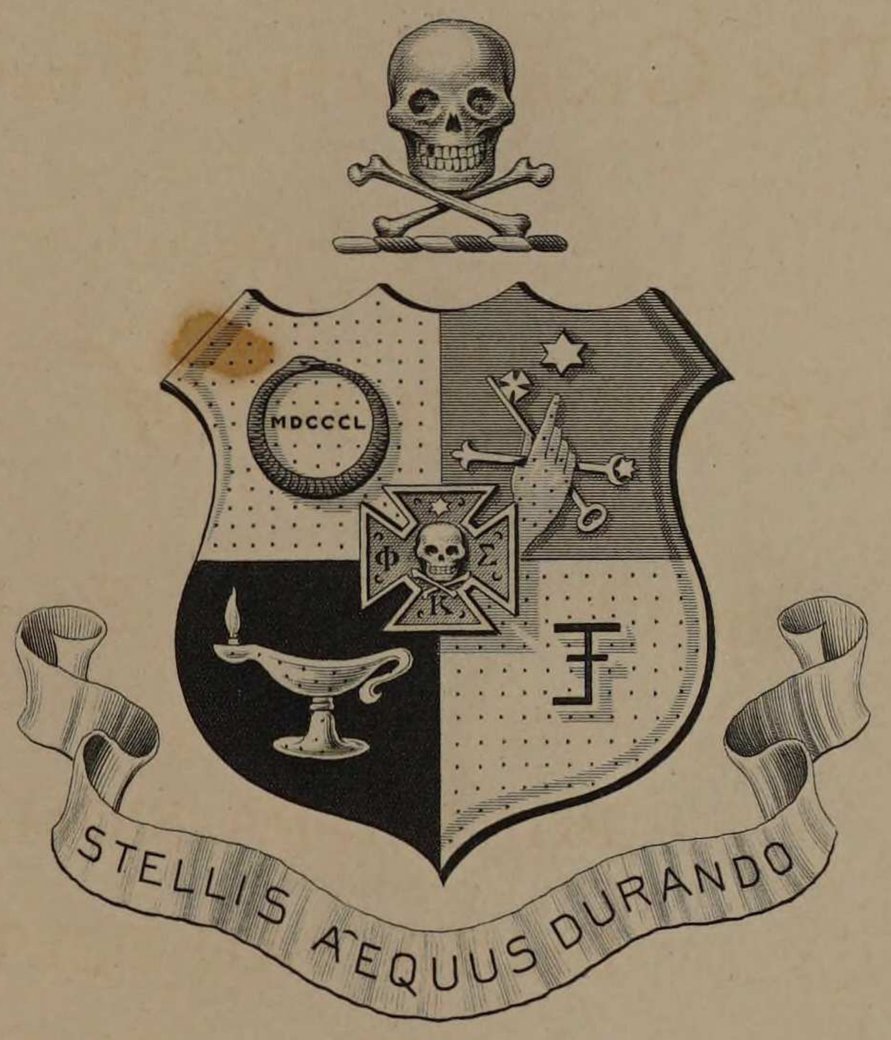
Armour Institute *of* Technology

in the Order of Their Establishment

PHI KAPPA SIGMA

DELTA TAU DELTA

TAU BETA PI



Dreka, Phila.
Design Patent applied for

Phi Kappa Sigma

Chapter Roll

Alpha—1850	University of Pennsylvania
Delta—1854	Washington and Jefferson College
Epsilon—1854	Dickinson College
Zeta—1854	Franklin and Marshall College
Eta—1854	University of Virginia
Iota—1855	Columbia University
Mu—1858	Tulane University
Rho—1872	University of Illinois
Tau—1872	Randolph—Macon College
Upsilon—1872	Northwestern University
Phi—1873	Richmond College
Alpha Psi—1891	Pennsylvania State College
Alpha Alpha—1894	Washington and Lee University
Alpha Gamma—1896	University of West Virginia
Alpha Delta—1898	University of Maine
Alpha Epsilon—1898	Armour Institute of Technology
Alpha Zeta—1899	University of Maryland
Alpha Theta—1901	University of Wisconsin
Alpha Iota—1902	Vanderbilt University
Alpha Kappa—1903	University of Alabama
Alpha Lambda—1903	University of California
Alpha Mu—1903	Massachusetts Institute of Technology
Alpha Nu—1904	Georgia School of Technology
Alpha Xi—1905	Purdue University
Alpha Omicron—1905	University of Michigan
Alpha Pi—1906	University of Chicago

Phi Kappa Sigma

Alpha Epsilon Chapter

Founded 1898

1906

Norman W. Cook
Everett G. Demming
Lindsay H. Miller
Henry J. Sawtell
L. R. Townsley

1907

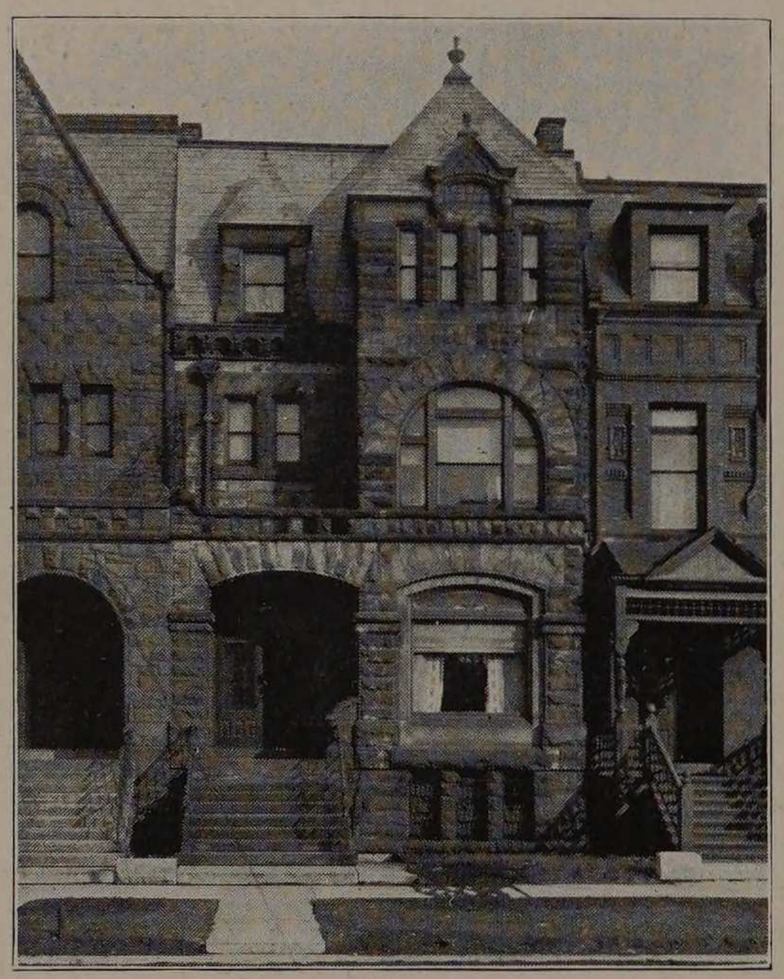
Howard C. Davies
Albert Hayden, Jr.
Julian Hayden
Wendell Hebard
George S. Laubach
Clarence U. Smith
John T. Walbridge

1908

Austin Crabbs
Charles O. Frary
H. Chris Hansen
Irving Odell
John S. Townsend
Adam G. Wickerham

1909

Samuel J. Aurelius
William L. Fry
Edward D. Nelson
Raymond M. Newman
Ralph M. Overstreet

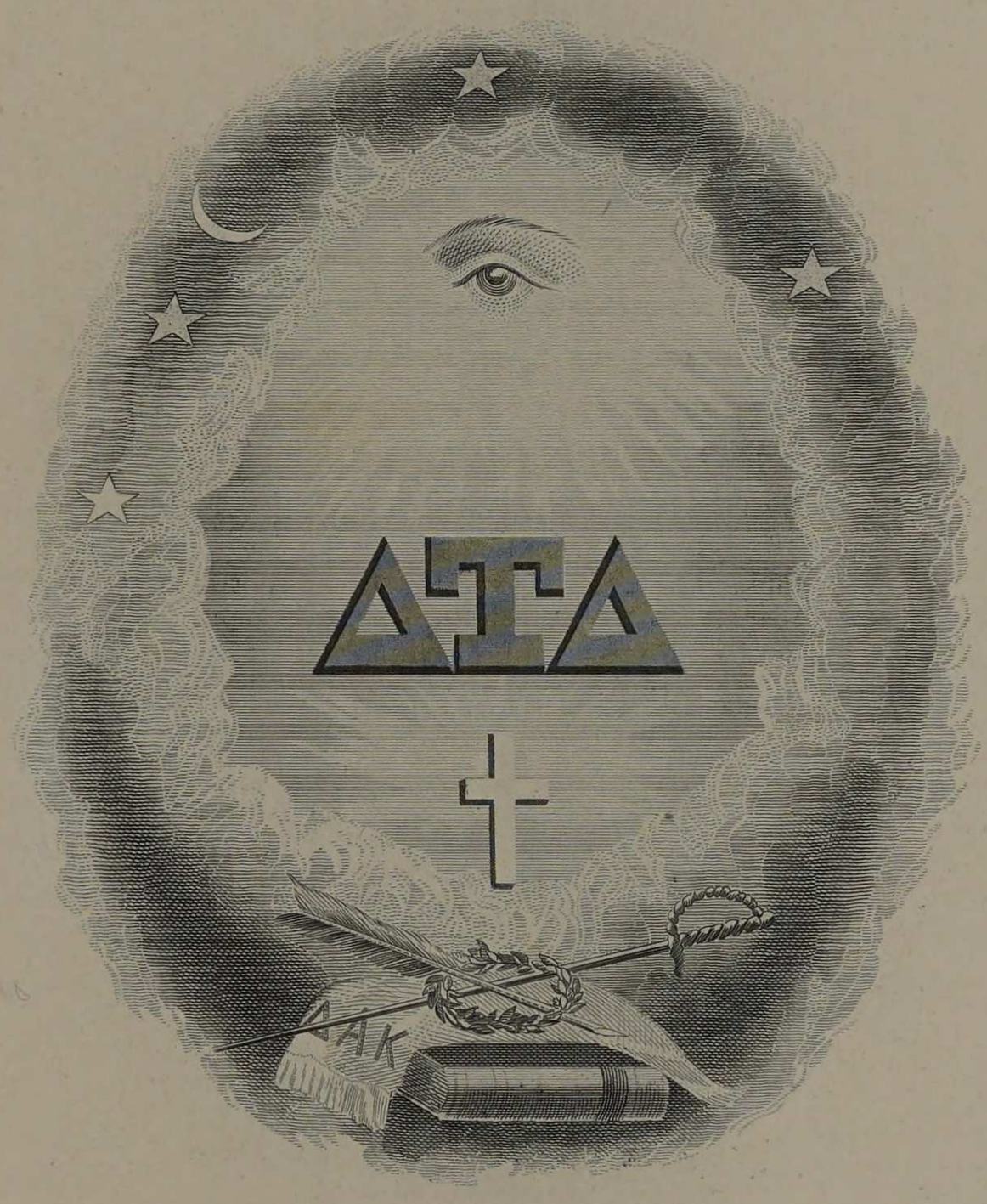


Chapter House
3219 Wabash Avenue

PHI KAPPA SIGMA—ALPHA EPSILON CHAPTER
1906



Miller Newman Laubach Townsend Aurelius Overstreet Nelson Hayden
Walbridge Davies A. Hayden Deming Frary Smith Cook
Crabbs Fry Wickerham Hansen Sawtell Hebard Townsley



Dreka, Phila.

Delta Tau Delta

Chapter Roll

SOUTHERN DIVISION.

Lambda—1881	Vanderbilt University
Pi—1848	University of Mississippi
Phi—1896	Washington and Lee University
Beta Epsilon—1882	Emory College
Beta Theta—1883	University of the South
Beta Iota—1889	University of Virginia
Beta Xi—1889	Tulane University
Gamma Eta—1903	Columbian University
Gamma Iota—1903	University of Texas

WESTERN DIVISION.

Omicron—1880	University of Iowa
Beta Gamma—1888	University of Wisconsin
Beta Eta—1883	University of Minnesota
Beta Kappa—1883	University of Colorado
Beta Pi—1893	Northwestern University
Beta Rho—1893	Leland Stanford, Jr. University
Beta Tau—1894	University of Nebraska
Beta Upsilon—1894	University of Illinois
Beta Omega—1898	University of California
Gamma Alpha—1900	University of Chicago
Gamma Beta—1901	Armour Institute of Technology
Gamma Theta—1902	Baker University
Gamma Kappa—1905	University of Missouri

NORTHERN DIVISION.

Beta—1862	Ohio University
Delta—1874	University of Michigan
Epsilon—1876	Albion College
Zeta—1882	Adelbert College
Kappa—1867	Hillsdale College
Mu—1866	Ohio Wesleyan University
Chi—1881	Kenyon College
Beta Alpha—1887	Indiana University
Beta Zeta—1871	Indianapolis University
Beta Beta—1875	De Pauw University
Beta Phi—1894	Ohio State University
Beta Psi—1894	Wabash College
Gamma Delta—1902	University of West Virginia

EASTERN DIVISION.

Alpha—1863	Allegheny College
Gamma—1861	Washington and Jefferson College
Rho—1874	Stevens Institute of Technology
Upsilon—1879	Rensselaer Polytechnic Institute
Omega—1897	University of Pennsylvania
Beta Lambda—1889	Lehigh University
Beta Mu—1889	Tufts College
Beta Nu—1889	Massachusetts Institute of Technology
Beta Omicron—1890	Cornell University
Beta Chi—1896	Brown University
Gamma Gamma—1902	Dartmouth College
Gamma Epsilon—1902	Columbia University
Gamma Zeta—1904	Wesleyan University

Delta Tau Delta

Gamma Beta Chapter

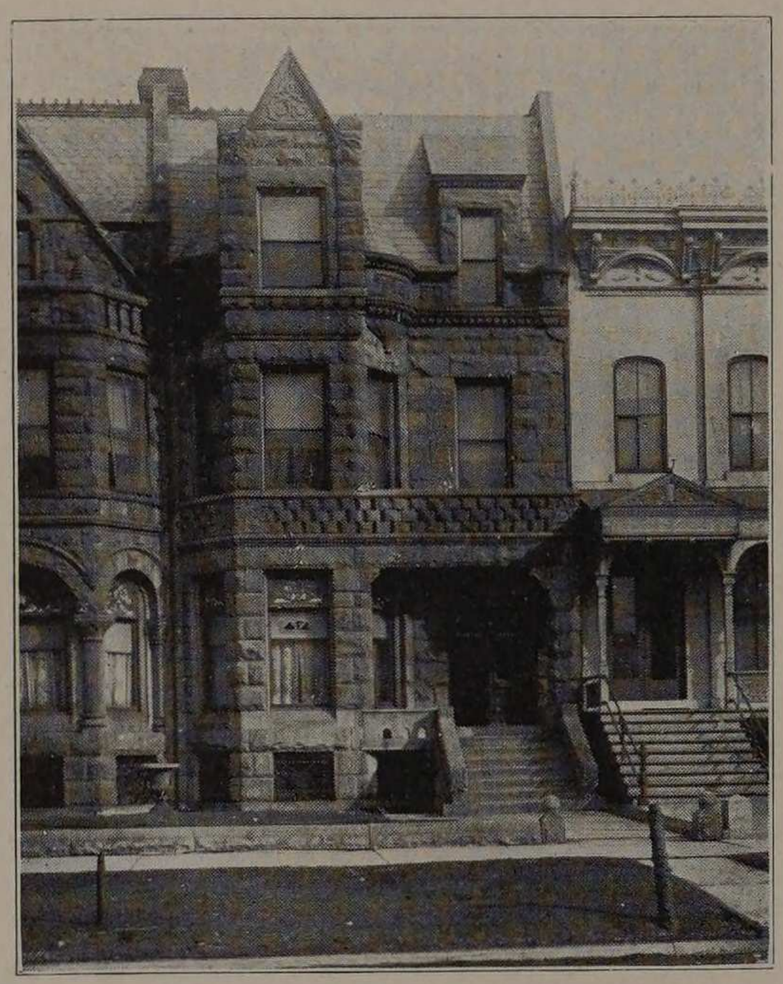
Founded May 10, 1901

1906
A. J. Allyn
R. S. Torrance
C. L. Campbell

1907
E. H. Ellett, Jr.
H. F. Robinson
B. C. Hooper
L. B. Smith
A. A. Kelkenney
M. Thompson
B. Hoffman, Jr.

1908
M. T. Jones, Jr.
H. S. Ellington
W. B. Parmele

1909
H. C. Frisbie
H. S. Pratt
D. D. Dick
F. A. Niestadt
R. D. Wilder

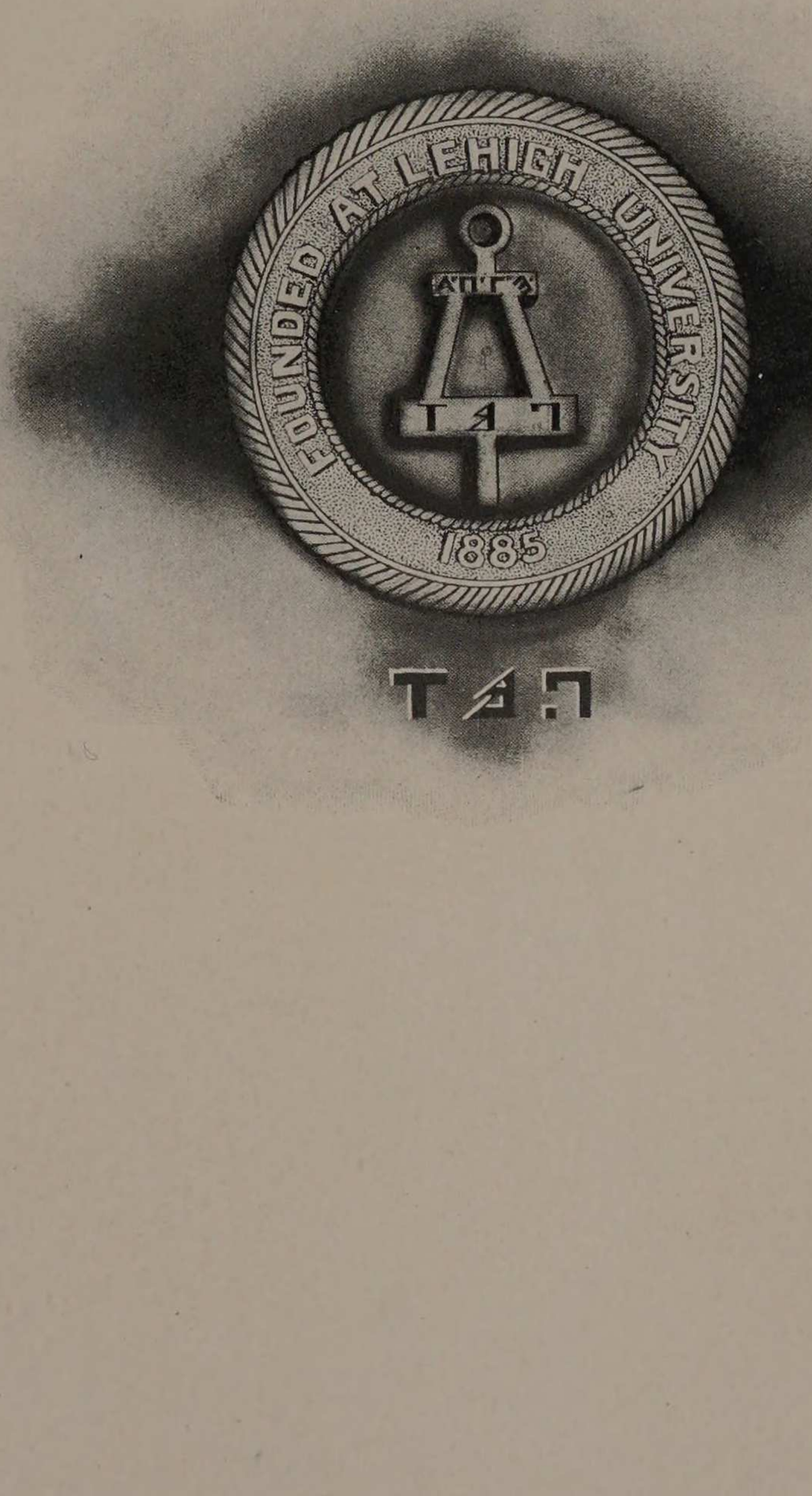


CHAPTER HOUSE
3343 Wabash Avenue

DELTA TAU DELTA—GAMMA BETA CHAPTER
1906



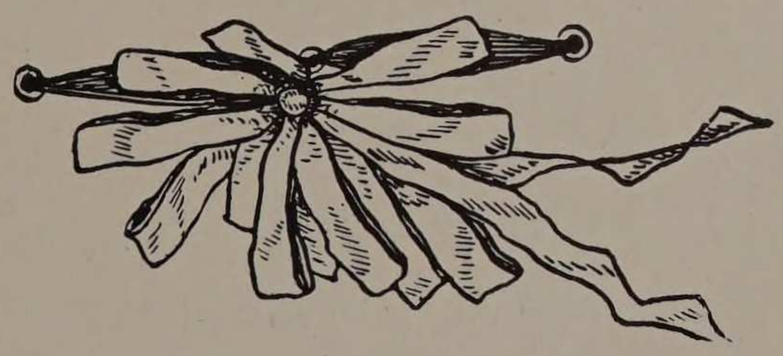
Hoffman Dick Pratt Parmele Smith Niestadt Allyn Thompson
Campbell Robinson Jones Torrance Ellett Kelkenney Wilson Frisbie


FOUNDED AT LEHIGH UNIVERSITY
1885
ΤΑΠ

Tau Beta Pi

Chapter Roll

Alpha of Pennsylvania—1885	Lehigh University
Alpha of Michigan—1892	Michigan Agricultural College
Alpha of Indiana—1893	Purdue University
Alpha of New Jersey—1896	Stevens Institute of Technology
Alpha of Illinois—1897	University of Illinois
Alpha of Wisconsin—1899	University of Wisconsin
Alpha of Ohio—1900	Case School of Applied Sciences
Alpha of Kentucky—1902	Kentucky State College
Alpha of New York—1902	Columbia University
Alpha of Missouri—1902	University of Missouri
Beta of Michigan—1904	Michigan College of Mines
Alpha of Colorado—1905	Colorado School of Mines
Beta of Colorado—1905	University of Colorado
Beta of Illinois—1906	Armour Institute of Technology



Tau Beta Pi

Beta Chapter of Illinois

Founded April 6, 1906

Fratres ex Universitate

R. V. PERRY, '97
Asst. Professor of Mechanical Engineering, Armour Institute of Technology.

O. A. ROCHLITZ, '01
Asst. Professor of Chemical Engineering, Armour Institute of Technology.

R. H. RICE, '97
Asst. Professor of Electrical Engineering, Armour Institute of Technology.

W. H. CLAUSEN, '04
Asst. Engineer, City Engineer's Office, Chicago.

Honorary Members

H. M. RAYMOND
Dean, Armour Institute of Technology.

H. C. COFFEEN
Asst. Professor of Machine Design, Armour Institute of Technology.

Fratres in Universitate

1906

W. C. Brubaker
Einar Enander
T. S. Ford
E. F. Gillette
E. O. Greifenhagen
Grover Keeth
Charles Klapper
F. A. Wanner

1906

Samuel Klein
H. L. Krum
G. W. Kuhn
Ernst Liebermann
D. P. Moreton
M. B. Reynolds
H. J. Sawtell
R. E. Swearingen

1907

J. L. Ehretsman
C. S. Heath
C. S. Henning, Jr.
I. F. Jackson
S. V. James
H. W. Jones
R. F. Steward
F. M. Sturgess
L. B. Young

TAU BETA PI—BETA CHAPTER OF ILLINOIS

1906

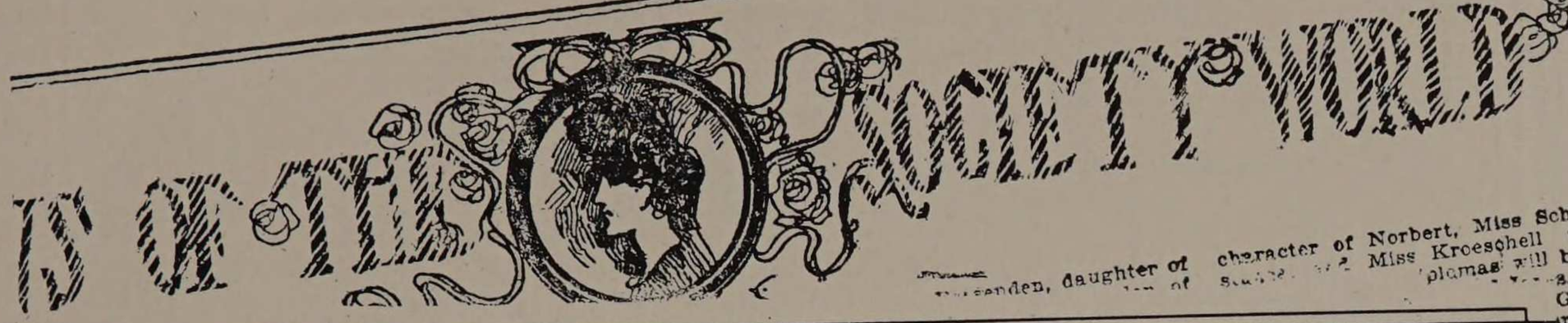


Wanner Klein Moreton Kuhn Reynolds Enander Brubaker
Krum Clausen Rice Perry Rochlitz Gillette Swearingen
Ford Greifenhagen Keeth Sawtell Liebermann Klapper

STRAY GREEKS

Other Fraternities Represented at Armour are:

C. R. Alling, '07	Beta Theta Pi	Northwestern University
C. L. Wilson, '08	Beta Theta Pi	Lehigh University
Dean Farley, Sp.	Beta Theta Pi	Northwestern University
H. A. Pegues, '08	Delta Kappa Epsilon	University of Chicago
N. Rohr, Sp.	Sigma Nu, T. N. E.	University of Minnesota
C. R. Riker, '06	Sigma Nu	Mt. Union College
G. C. Thompson, Jr., '08	Phi Delta Theta	Kentucky State College
M. L. Thompson, '08	Phi Delta Theta	Iowa State College
J. S. Kauffman, '08	Sigma Alpha Epsilon	Case School of Applied Sciences
G. W. Smith, '06	Phi Gamma Delta	University of Texas
J. L. Schmidt, '07	Phi Gamma Delta, Wabash College and Cornell University	



LOCAL SOCIETIES

aris, and the ...
angements are the
ere the event is to
place early in De-
n a Thursday even-
ned, and continue
ig, the doors to open
o'clock and remain
ll 11 o'clock at night.
will be set at $1 for
or children. Every-
and place is planned
ntertainment will be
wonder in the annals
ashioned on the lines
fêtes, only larger and
e proposed will stand
Woman's Aid society
morial hospital, under
h it is to be given for
spital.
lett has designed the
s and general arrange-
ill be the effect, and in
park. The whole will
Paris in holiday attire—
ectric lights everywhere,
f venders calling their
will show the most beau-
nable for purchase, and
numerable places of rec-
d of the street there will
where Mrs. Joseph Gris-
be in charge, and at the
e a dance platform, where
onoré will preside. As the
ne to the other they will
hops, which are to be as
can wish.
novelty shop, where Mrs.
ill be in charge, while in
ill be millinery, in charge
Armour. Mrs. Hobart C.
will have a florist's shop,
ey Field is to have a shop
p and candle shades. Mrs.
penter will have a shop dear
ers, full of wonderful toys
nd another, which will be an
the older ones, will be the
A. Spoor will have, devoted
quisite and novel ...
herine L...

In Au Sable, ...

Miss Ruth Rogers Higgie wa... a
side bride, her marriage to Mr. John Sanford
Perry taking place at 8 o'clock at the resi-
dence of her mother, Mrs. Mary J...
4925 Washington avenue. Less th...
dred guests were present to witnes...
mony, which was performed by th...
man Page. T... bride, who was
her sister, Miss ... Lyal Higgi...
chiffon crêpe, ... h lace, a t...
carried lilies o... The ...
was in pink ... ried
Mr. Carl Wri...
were no brides...
Perry are taki...
nd after ...
Fl...
Ed...
Nann...
Mr. an...
throp ...
Henry ...
met ...
th...
home We...
throp avenue ...
Fifty guest...
of Miss Et...
Mrs. D P...
Rev. C. ...
which t...
reside...
Mrs. ...
a v...
So...

first street, anno...
daughter, Bede Jewell Dickson,
ert M. Cunningham.
Mr. and Mrs. C. E. Mable of N...
nounce... engag... ent of th...
Hele... ia Williams, to...
Jer... hicago. Mi...
... of Mr...
...venue ...

...w York an-
daughter,
hn Easton
hms is at
ke of he
h boul...
a Salle
of her
hodes
ce at
ark
heir
rkes
a-

Mr. and Mrs. ...
turned from Europe.
Mr. and Mrs. A. B. Scully
from California, where they
and are now at the Auditoriu
will spend the greater part
the Moraine hotel in Highl
purchased a home in Califor
live there in the winter here
Mr. and Mrs. John Donald
up their house at 442 Ch
taken apartments in the V
Mr. and Mrs. R. Hall
closed their house, 124 Rus
gone to New York. The
Phœbe McCormick have
friends.
Miss ...nnie Cox, 131 A...
again this year
by Miss Deshler
of Mrs. Rensselae...
une and will spend
England and Ireland.
iss Clara Herrick, 22...
h Washington, the gu...
daughter of Chief Just...
Mr. and Mrs. Nelson J...
Chicago avenue, have
for a two weeks'
Richard Jones
at 113 Cass street
partment on Chicago
weeks they will leav...
they intend making ...
Jones is already there
Mr. and Mrs. Sam...
cupled the ...

...igan
their
home

Miss Speed's ... Mr. and Mrs.
Speed, 5000 Madison avenue, the ...
man Page performing the ceremo...
o'clock. The bride wore ...
rose point ...

...nce the en...
...tha, to Leo ...
...d Mrs. M...





By Fadette.

...n mor-
...illect-
... silver wedding cel-
...party by the

herself with a quick gesture as she suspects
that she is napping
The poem gracefully ends in wishing the
couple many years of happiness together.

Japanese Party—
... played progressive
...h table. The ga...
...ric cards ...

RADICAL X

3.A.C.

1904 Radics

H. Hammond
E. J. Hiller
M. S. Flinn
A. B. Benedict
R. N. Davis
F. W. Indermille
J. A. Crawford
W. C. G. Wilson
W. W. Hoops
D. R. Frary
H. G. Zuckerman
R. E. Williams
L. J. Byrne
A. C. McArthur
A. H. Lewis
W. H. Dean
A. M. Jens

1905 Radics

D. E. Willard
H. B. Marshall
R. G. Culbertson
F. M. de Beer
H. W. Bryant
D. E. Hannan
C. P. Hatter
M. H. Wright
R. N. Towl
A. E. Seyl
B. H. Sackett
T. H. Ellett
W. K. Kretsinger
Roy Malcolm
W. F. Harvey
E. J. Carroll
C. P. Herrman
F. A. Emmons
C. M. Raley
A. E. Fergusen
W. E. Rupe
R. W. Lowenthal
R. B. Harper

Senior '06 VFX Radics

In College

F. T. Pierce
L. H. Miller
L. R. Townsley
E. G. Deming
E. F. Hiller
C. O. Johnson
H. J. Sawtell
J. L. Schmidt

Out of College

A. G. Rockwell
R. O. Walker
G. N. Crawford
R. A. Neilson
K. R. Slocum
H. L. Goetz
C. W. Stone
L. R. Levings (deceased).
T. S. Allen
R. E. Jens

ALTHOUGH considerably shot full of holes, the old guard still lives, and though our ranks have been seriously thinned, we have made up in enthusiasm for what we lack in numbers.

All our active members and one or two of the "ex's" showed up at the "re-Union" held in the early part of the year. Mr. Union put up a good lunch and everyone had an enjoyable time. Ted Ellett's wild boar dinner and breakfast, on the evening of the 27th and the morning of the 28th,

SENIOR RADICS,
1906



Deming Hiller Schmidt Townsley
Miller Pierce Johnson Sawtell

looked good to all the family. The boys helped to keep the festive pig from getting cold like a squad of free lunch detectives shadowing a bunch of potato pancakes. It would not be out of place to commend the good behavior of the Seniors, and if Ted has to pay any of the neighbors for the crockery spoiled in the scuffle after the greased pig, he need not blame us.

The banquet given to the Freshmen was attended in a body and afterwards those who had fifteen cents left, sat in on an impromptu theatre party at the Olympic.

Junior '07 Radics

In College

A. A. Kelkenney
C. E. Kilgore
W. F. Hebard
C. U. Smith
B. C. Hooper
J. T. Walbridge
A. Hayden, Jr.
J. Hayden
H. C. Davies
M. Thompson
L. B. Smith
G. S. Laubach
T. Wachs
E. H. Ellett, Jr.

Out of College

J. N. Nind, Jr.
L. W. Bangs
W. E. Schermerhorn
G. Flanagan
H. R. Shepherd
W. Hewitt

THE beginning of the year found the '07 Radics with but eight men, those absent being Hewitt, Shepherd, Bangs, Schermerhorn and Nind. Of these Hewitt is now attending the University of Chicago, Shepherd is teaching in the High School at Ida Grove, Iowa, Bangs has enrolled at Harvard, Schermerhorn is in business with his father at Wilson, Kansas, and Nind has accepted a position with the "Railway Age" in Chicago.

To bring our little tribe up to its full number, a meeting was held near the end of the winter term and five men were elected to membership. These were G. S. Laubach, M. Thompson, L. B. Smith, H. C. Davies and T. Wachs. E. H. Ellett, formerly one of the '06 men, also joined us at this time, thus making our present number fourteen.

JUNIOR RADICS,
1906



A. Hayden Laubach L. B. Smith Walbridge Ellett Hayden Kelkenney
Davies Thompson Kilgore Smith Wachs Hebard

Thus far in our career at Armour we have done little along social lines except to support such social events as were given by the Radics as a whole. We have striven rather to live up to the original purpose of the club—to push every Armour endeavor, whether it be class or school affair, and, so far as lies in our power, to *make it succeed*. What the results of our efforts have been in the past we leave for others to say, but whether these have been little or great we hope to accomplish more still in this next and last year of our life at Armour.

Sophomore '08 √x Radics

In College

C. O. Frary
J. M. Lane
J. E. Monahan
A. Crabbs
H. C. Hansen
J. S. Townsend
G. G. Buhman
K. Harger
R. W. Sturtevant
J. E. Sawyer, Jr.
C. S. Packer
H. S. Ellington

Out of College

I. Odell
H. J. Farmer
T. W. Bannerman
T. W. Smith
H. C. Brown
H. A. Pegues
R. W. Tutthill

THE '08 Radics have executed some excellent stunts throughout the past year. They have dined at Frary's, Pegues,' Crabbs,' and Brown's and banqueted at Odell's. At the Illinois Theatre the fellows enjoyed a royal show accompanied with little side issues by some of their own members. Pegues fell in love with a chorus girl, but with the use of many bribes and a large stock of good advice and elevating influence we were able to save him.

SOPHOMORE RADICS,
1906



O'Dell Parker Townsend Harger Lane
Ellington Crabbs Frary Sawyer
Buhmann Sturtevant Monahan

Class '08 has always tried to do her part and has been well represented at all of the regular Radic functions. More than this, however, they gave the entire club a dance at the Auburn Hall late in April, 1905. This was well attended, not only by the club but by the Alumni, and a very pleasant evening was spent by all there. The original members certainly had a good, live spirit, and it may be said without conceit that the same spirit prevails in the members today. Many pleasant evenings are planned for the coming year, but these of course can better be described later.

Freshman '09 √x Radics

In College

D. D. Dick
W. L. Fry
S. J. Aurelius
E. D. Nelson
H. C. Frisbie
E. F. Miller
A. M. Ellett
J. S. Harvey
R. M. Neumann
W. H. Edwards
F. J. Hughes
R. D. Wilder
R. M. Overstreet

THE '09 Radics have just begun their career as members of the club and therefore have not as yet a very lengthy budget to unfold for publication. They certainly have the necessary material for a prosperous existence, and no doubt another year will add much to their little list of doings.

The initiation banquet extended them as usual by the upper classmen was pronounced by all the '09 men to be a decided success. It was held on Friday evening, February 23, 1906, at the Union. The interchanging of stories and the singing of some good old songs made the time pass all too quickly. The merry stunts that Billy Fry and our friend Hughes executed on the piano were also worthy of note.

What the different members did after the banquet or where they went they have refused, on advice of counsel, to divulge. We have put this case up to the daily papers for explanation, but none of them has as yet given us any satisfaction. Articles are expected to appear at almost any time in their editorial columns, however, on this point. The most startling fact connected with this mystery is that all of the men showed up at classes

FRESHMEN RADICS.
1906



Newman Hughes Aurelius Miller
Overstreet Edwards Ellett Nelson
Frisbie Dick Harvey Fry

the next morning. Whether this was done to really gain knowledge or merely reputation is not as yet apparent.

Radical X History

The Radical X Club owes its existence to the efforts of a few members of the Class of '04. Originally, as the chroniclers of that time tell us, they were a very jolly bunch, and did several very neat little stunts. However, as the events of that time could probably be more justly called "Con-

fessions of the Radical X Club" than classified as its history, we will pass on to the time when the idea of the club first came to these men and when they first began to build it up.

Their plans were made in 1901 and were as follows. The club was to have for its purpose "The promotion of real college life at Armour, the quickening of Class rivalry, and the increasing of the social life at the Institute." This was to be accomplished by choosing thirteen men from each of the succeeding classes as members of the club,—this realizing the double end of having a total membership of fifty in the club and of having enough men in each class to keep things moving. Following this plan thirteen men were chosen from the Class of '05 and were initiated by a banquet at the home of Tom Ellett. '06 was soon ushered in by a feed at the Bismarck, and finally the full number was completed when '07 was taken down to the Union. Since then, of course, the places of '04 and '05 have been filled by the men of '08 and '09, so that the total of fifty-two is always kept.

The club has no Constitution and no By-Laws. Everything in its business sessions is done according to custom and, as one of the members once expressed it, "if the custom don't suit us we change it." A man accepts no written obligations when he becomes a member of the club, but it is understood that in becoming a Radic he binds himself to fulfill his duty to his Class and the School to the best of his ability, that every Class or School interest with which he is connected must succeed, and that he must always keep himself free from factional interests.

The original purpose of the club has most certainly been lived up to, for the Radics have always been the leaders in the social life at Armour and have been connected with every Armour affair for the last five years, always supporting and often leading. The Radic dances have been *the* dances of the year, while two operas have been written and produced by members of the club. This year the efforts of the club will be put into a formal dance which is to be given during the Spring term, but it is hoped that next year we will be able to produce an opera.



TECHNICAL SOCIETIES



OFFICERS

PROFESSOR C. E. FREEMAN, *Chairman and Local Secretary*

Vice Chairman

G. W. SMITH

Recording Secretary and Treasurer

C. R. RIKER

EXECUTIVE COMMITTEE

Senior Members

H. C. KRUM L. H. MILLER

Junior Members

T. A. BANNING J. S. SMALLEY

MEMBERS

Faculty

C. E. FREEMAN J. E. SNOW R. H. RICE
A. A. RADTKE E. H. FREEMAN

Seniors

E. W. CUTLER
A. J. FRY
C. KLAPPER
H. C. KRUM
E. D. MEYER
L. H. MILLER
C. E. MORAN
D. P. MORETON
C. R. RIKER
H. SCHAEDLICH

Juniors

H. R. BADGER
T. A. BANNING
A. L. EUSTICE
R. G. GRANT
J. HAIL
C. S. HENNING
O. C. KANZLER
H. W. NICHOLS
J. S. SMALLEY
M. V. STAGG
F. M. STURGESS

ARMOUR BRANCH—A. I. E. E.

1906



Grant Nichols Stagg Badger Henning Hail Sturgess Eustice Smalley
Banning Fry Schaedlich Moran Krum Klapper Meyer Moreton
Cutler Smith Miller Snow Freeman Radtke Rice Riker

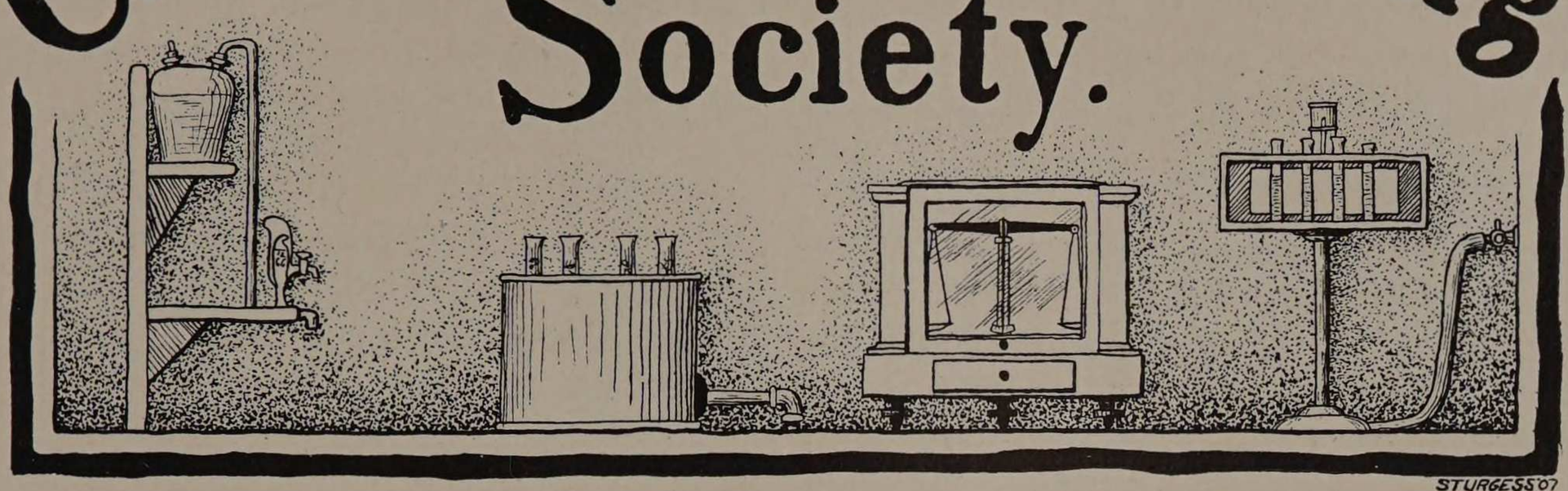
THE INTEGRAL

The Armour Branch of the American Institute of Electrical Engineers is now in the third year of its growth. It is organized for the purpose of aiding its members to keep informed on the active developments in the electrical world and to keep in touch with the practical problems which are being continually brought forward and solved by the leading electrical engineers of the country. The parent body is the foremost electrical society in America. Its purpose is to bring together the engineers of established reputation and to systematically investigate the various problems and conditions confronting the electrical profession. The men who make up its membership are practical in their ideas, and it is reasonable to expect that much of the future electrical development will come from such an organization. To the members of the local branch not the least interesting part of the work of the parent body is that of the Edison Medal Committee. In 1903 the Edison Medal Association was formed, its object being to commemorate the achievements of the great inventor. Once in each year this Association offers a suitably inscribed gold medal to that qualified student who shall submit to the Institute the best thesis or record of research on theoretical or applied electricity or magnetism.

The Student Branch at Armour is especially fortunate in having the opportunity of attending the meetings of the Chicago Branch, which is next in point of size and influence to the original organization, which is located in New York City. Student members are always welcome to any of the meetings of the larger branches.

Membership in the local branch is limited, by local constitution, to members of the Junior and Senior classes of the electrical department, though members of the other classes and departments are often asked to attend the meetings. Four of the members of the faculty of the electrical department are Associate Members of the A. I. E. E. and take an active interest in the work of the student branch. This work consists mostly in the reading and discussing of papers presented before the parent body at New York. In addition, original papers by various members of the branch are presented and discussed, the aim of these meetings being to bring out the ideas of the individual members and to give to all the benefits of the experience of each. In this way the members are greatly benefited by the ideas presented and have the opportunity of becoming skilled in the expression of their own ideas. In addition to the regular meetings the branch is from time to time addressed by certain of the leading engineers of the city on subjects of practical interest. A fee of three dollars per annum is charged for membership in the student branches. For this the student receives monthly a copy of the Proceedings of the Institute. This journal is in effect the foremost technical magazine in America, containing the very latest ideas and developments in all lines of electrical activity. As such it makes an invaluable source of information to anyone technically interested in electrical work.

Chemical Engineering Society.



OFFICERS

Professor W. T. McClement, *President*

C. C. Hotchkiss, *Secretary*

List *of* Members

1906

W. R. Collins
M. Elkin
W. H. Flood
C. C. Hotchkiss
V. Nicholson
H. G. R. Quin
J. N. Schumacher
F. S. Warszewski
M. Woldenberg

1907

A. C. Geist
C. S. Heath
F. G. Heuchling
B. Hoffman
H. W. Jones
E. Myers
A. Pacyna
B. Perlstein
F. H. Robinson
L. B. Smith
R. T. Steward
R. A. Wight

1908

E. E. Andrews
P. E. Chatain
H. DeLemon
I. Z. Ettenson
E. T. Holmberg
M. T. Jones
R. E. Kewley
E. G. Klooz
S. E. Lunak
H. M. Martin
W. H. Patrick
R. F. Sherman
H. C. Smith
C. H. Teesdale
H. W. Twining
M. Vanderkloot
G. W. Wilsnack.

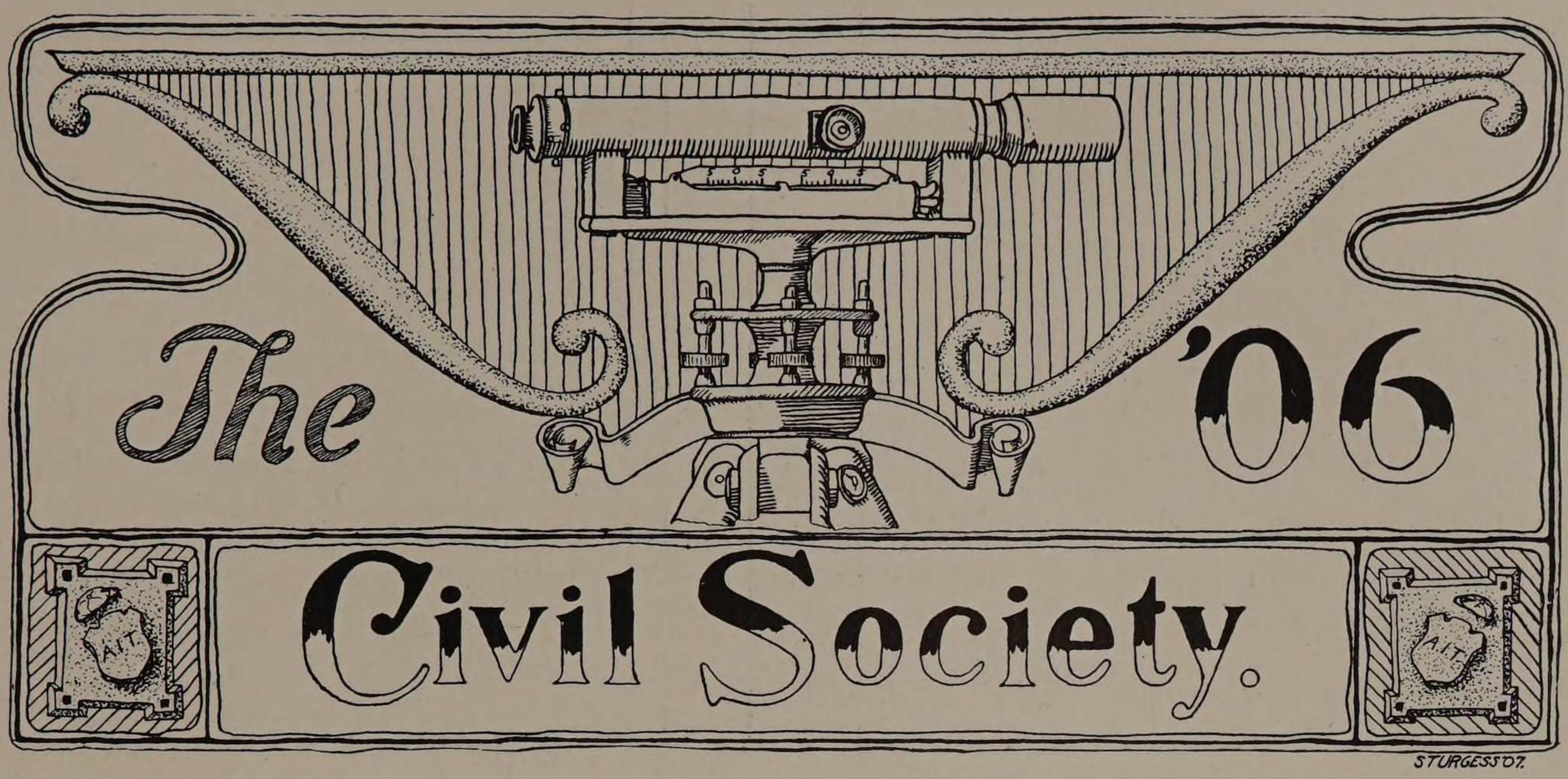
THE INTEGRAL

In February, 1903, the Chemical Engineering Society was organized. The course of Chemical Engineering had then been in the College curriculum for two years, and it had become evident to those in charge of the department that a society of this kind would be of great advantage to the students taking the course. They therefore founded the Society. It was decided that a constitution would not be necessary and that no dues would be required of the members. The membership consists of all the Seniors, Juniors and Sophomores in the Chemical Engineering Course as active members and the Freshmen in the course as honorary members. The members and various instructors in the department have read papers before the Society on various subjects of interest to the members, and a systematic study of the current literature is carried on.

The Society has been in existence for three years and has received the hearty support of the members. Meetings are held every two weeks during the school year, at which the papers which have been prepared are read. The meetings are open to any of the students of the other courses who are interested in the subject and much valuable information may be gained there. From time to time the department has secured the services of those engaged in the work, who have given talks on their special lines of work.

The following list of papers and lectures has been given at the meetings during the past year:

"Manufacture and Properties of Artificial Silk".....R. H. Fash
"Recent Advances in Chemistry".....W. H. Flood
"Ozone" .....H. G. R. Quin
"The Theory of Gas Mantles".....Mr. B. B. Freud
"Asphalt" .....L. H. Stem
"The Chemistry of the Rarer Elements".....F. S. Warszewski
"Protective Paints" .....E. Myers
"Manufacture and Chemistry of Glue".....R. F. Steward
"Manufacturing and Refining of Wood Alcohol".....B. Hoffman
"Lubricating Oils—Preparation and Refining".....R. F. Steward
"Manufacture and Properties of Linseed Oil".....
.....Chief Chemist Hooker of Heath & Milligan Paint Co.
"Manufacture, Testing, and Adaptation of Lubricating Oils".....
.....Chief Chemist Converse of Dearborn Drug and Chemical Co.
"Nature and Uses of Catalysis".....Mr. B. B. Freud
"Government Inspection of Imported Wines and Liquors"...Mr. E. E. Jones



OFFICERS

Executive Committee,

FRANK T. PIERCE, *Chairman;* MYRON B. REYNOLDS, CHARLES S. HOLCOMB

Corresponding Secretary,

EDWIN O. GREIFENHAGEN

MEMBERS

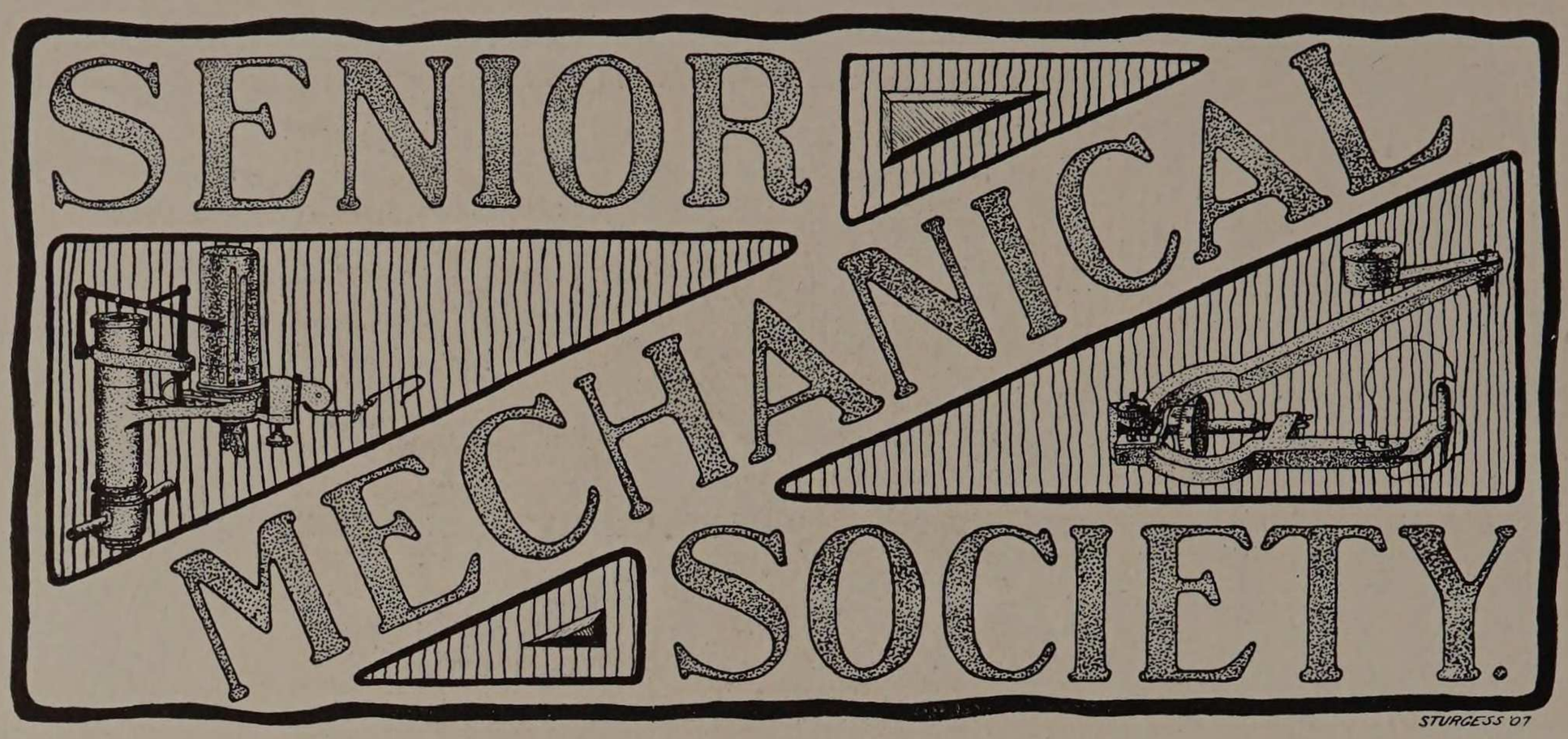
O. T. ALLEN
F. J. FLANAGAN
T. S. FORD
E. F. HILLER
C. O. JOHNSON
S. KLEIN
W. G. LEININGER
E. LEIBERMANN
R. S. SPALDING
C. L. CAMPBELL

HONORARY MEMBERS

G. A. HAGGANDER
J. PURDY

The senior year of the '06 Civils showed a partial relaxation from the strenuous course of study of former years and gave the Civil Society a chance to carry out one of its objects, namely, to promote sociability. The year has been marked by a succession of theatre parties, smokers, and dinners. However, this year's activities have not all been of a social nature, as the record of former years has been fully equaled in regard to inspection visits and profitable discussions.

At a recent meeting the officers formally resigned and arrangements were made to prevent the dissolution of the society after the class has graduated. Accordingly, a permanent secretary was elected to keep the scattered members in touch with each other.



President

GEORGE W. CLUCAS

Secretary and Treasurer

HENRY J. SAWTELL

House Committee

GROVER KEETH ALVA L. CARR

MEMBERS

W. L. BROCK
W. C. BRUBAKER
A. L. CARR
G. W. CLUCAS
A. DAVIS, JR.
N. L. EDSON
E. ENANDER
R. G. FOCHT
W. S. GAYLOR
C. E. HAYES
V. A. HOUGHTON
G. KEETH
R. W. KIMBALL
R. L. MORRISON
L. A. PARADISE
H. J. SAWTELL
P. J. SCOTT
H. L. STRUBE
A. F. WANNER
F. N. WILSON
W. R. WILSON

SENIOR MECHANICAL SOCIETY
1906



Scott Paradise Strube Carr Edson Enander Kimball
Wilson Brubaker Keeth Wilson Davis Morrison Focht
Brock Wanner Sawtell Clucas Hayes Gaylor Houghton

THE INTEGRAL

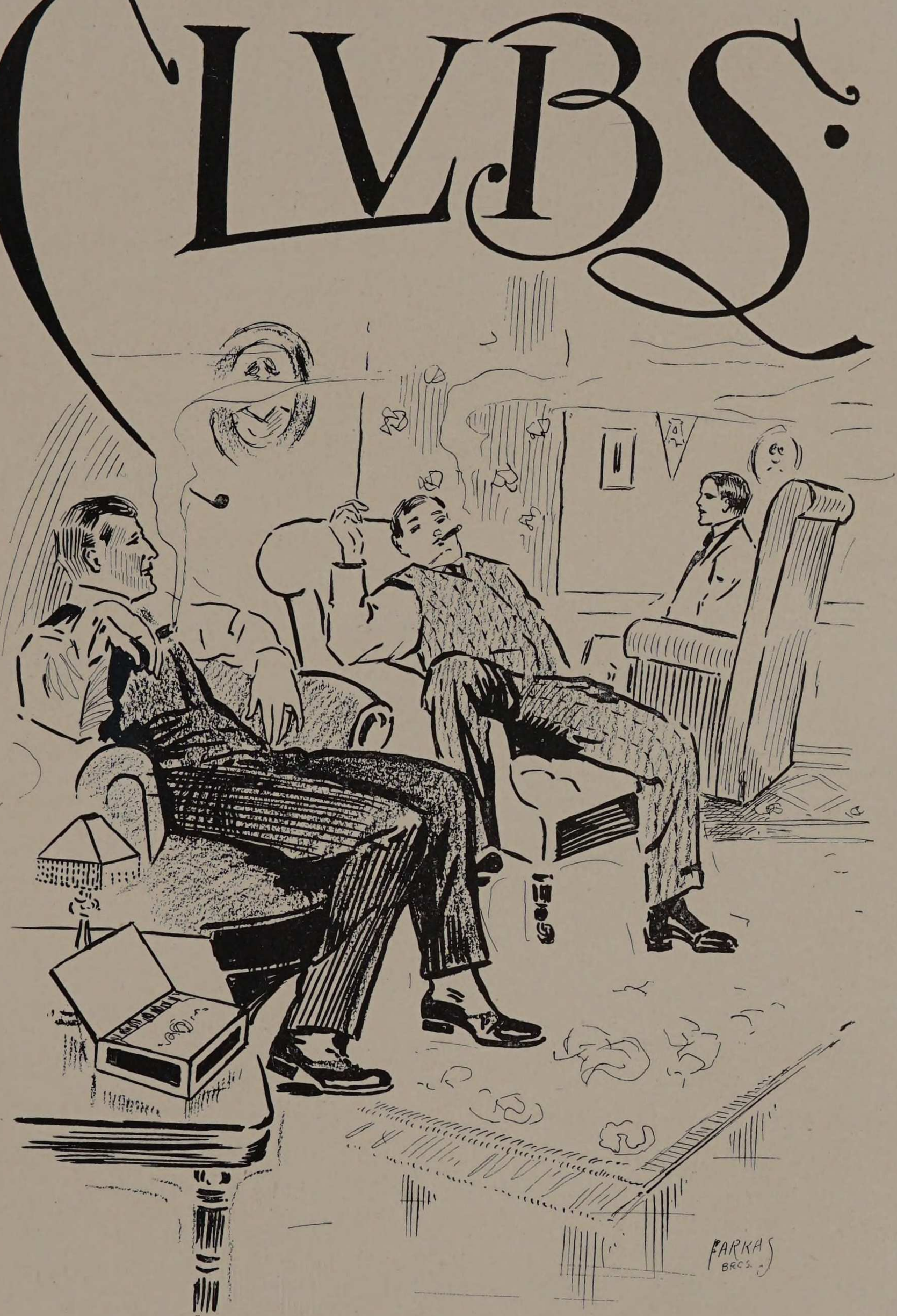
The Senior Mechanical Society is the outcome of an attempt of the Mechanical Engineering students to organize themselves with a view to obtaining a student membership in the American Society of Mechanical Engineers. The society in general has a three-fold purpose, aiming, first, to secure membership in the American Society of Mechanical Engineers, second, to maintain an organization of the students of Mechanical Engineering at Armour Institute of Technology, and, third, to create a closer fellowship among those Seniors in the Mechanical course.

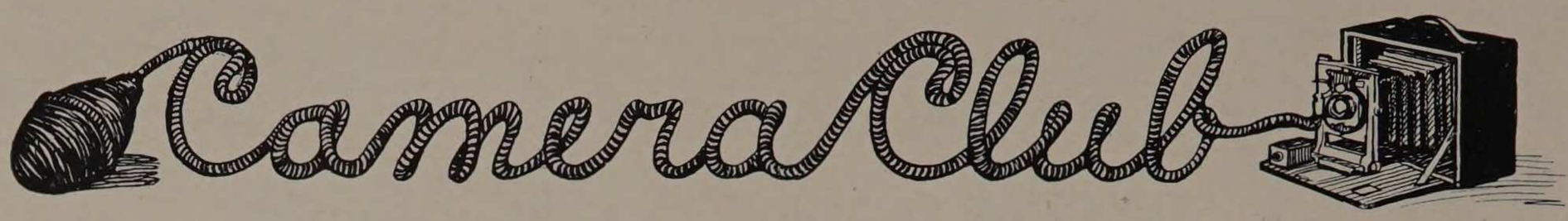
Any member of the Senior Class in Mechanical Engineering is eligible to membership, while those members of the Junior Class who have completed the work of the winter term in the Junior Mechanical Course are eligible to associate membership.

At the meetings the members give descriptions of the various plants they have visited in connection with their power-plant work and tell of their experiences with any apparatus peculiar to the individual plants. Talks are also occasionally given by different members on special lines along which they have worked, either during their vacation or prior to their entering school.

As an attempt to place Armour Institute on an equal footing with other large Technical Schools before the American Society, the Senior Mechanical Society deserves the warm support of all students of the Mechanical Course. It is hoped that the Society will be supported by all succeeding classes as it has been in the past two years. If this is the case the day ought not to be far off when we can see Armour represented among the student memberships of the American Society and occupying the place in it with other schools which is rightfully hers.

CLUBS





OFFICERS

M. T. Jones, Jr., *President* — G. H. Sammons, *Secretary*

W. R. Wilson, *Vice-President* — R. F. Sherman, *Treasurer*

H. W. Martin, *Custodian*

Membership Committee

R. F. Sherman — E. J. Smith — H. W. Martin

Magazine Committee

E. J. Smith — E. T. Hiller — W. R. Wilson

Instruction Committee

M. T. Jones, Jr. — W. R. Wilson — R. F. Sherman

Members

Prof. A. E. Phillips
E. J. Smith
W. R. Wilson
G. A. Lennartz
E. F. Hiiler
M. T. Jones, Jr.
R. F. Sherman
H. W. Martin
G. A. Chambers
G. H. Sammons
L. E. Simmons
L. H. Badger
W. W. Pontious
M. Douthitt
J. S. Kaufman
P. J. Scott

THE INTEGRAL

PHOTOGRAPHY as a fiendish pursuit has largely gone out of vogue, but there is still a goodly number of worshipers at the shrine on Silver, who continue to perform their ablutions with as much superstitious fervor as of yore. The Camera Club consists of a collection of such fanatics, organized in order to gain financial strength as well as to come into more intimate contact with others of similar persuasion. It is the ambition of each member to produce photographs which possess artistic merit as well as technical excellence. To make the realization of this aim easier, the Club has subscribed for a number of photographic magazines and placed them where members may get the good of them. Another convenience is a stock of chemicals, from which the members may supply themselves at cost price.

The Club has recently been moved to new quarters, and is again indebted to the Institute for its rooms. The new rooms are much better adapted to photographic work than the old ones. They are better arranged, lighter, and altogether more cheerful. The Club has apparatus not usually possessed by an individual. There is an enlarging-reducing-and-copying camera, arc light for copying, electric fan for drying negatives, a drying rack for prints, plenty of table room, individual lockers, etc.

The Club gives an annual exhibition of the work of members which is the event of the Club year. Last year the exhibition comprised one hundred prints and was a great success. Two classes, aiming to give a working knowledge of photography, have been organized and have been well attended.

More students are recognizing the value of membership and the number of members is constantly growing larger. All students and members of the Faculty are eligible to membership and may join by complying with the Club regulations. Financially the Club is on a firm basis.

The Club has proved to be of great benefit and a bright future is looked forward to.

FACULTY CLUB



OFFICERS

(For 1905)

H. M. Raymond, *President*
G. F. Gebhardt, *Vice-President*
W. A. Colledge, *Secretary*
F. U. Smith, *Treasurer*

(For 1906)

L. C. Monin, *President*
M. B. Wells, *Vice-President*
A. A. Knowlton, *Secretary*
G. F. Dietz, *Treasurer*

MEMBERS

F. H. Bernhard
R. Burnham
E. C. Briggs
D. F. Campbell
W. A. Colledge
H. C. Coffeen
R. Crow
G. F. Dietz
T. E. Doubt
J. B. Finnegan
C. E. Freeman
E. H. Freeman
B. B. Freud
G. F. Gebhardt
F. W. Gunsaulus
E. E. Jones
A. E. Joslyn
A. A. Knowlton
C. W. Leigh
E. S. Libby
J. E. Lind
W. T. McClement
H. McCormack
H. B. MacFarland
W. W. Manning
L. C. Monin
H. L. Nachman
R. V. Perry
N. P. Peterson
A. E. Phillips
A. A. Radtke
H. M. Raymond
R. H. Rice
N. C. Riggs
O. A. Rochlitz
G. L. Scherger
W. K. Smart
F. U. Smith
J. E. Snow
L. A. Sommer
F. Taylor
H. B. Thomas
W. O. Walker
G. M. Wilcox
G. W. Wilder
M. B. Wells

THE INTEGRAL

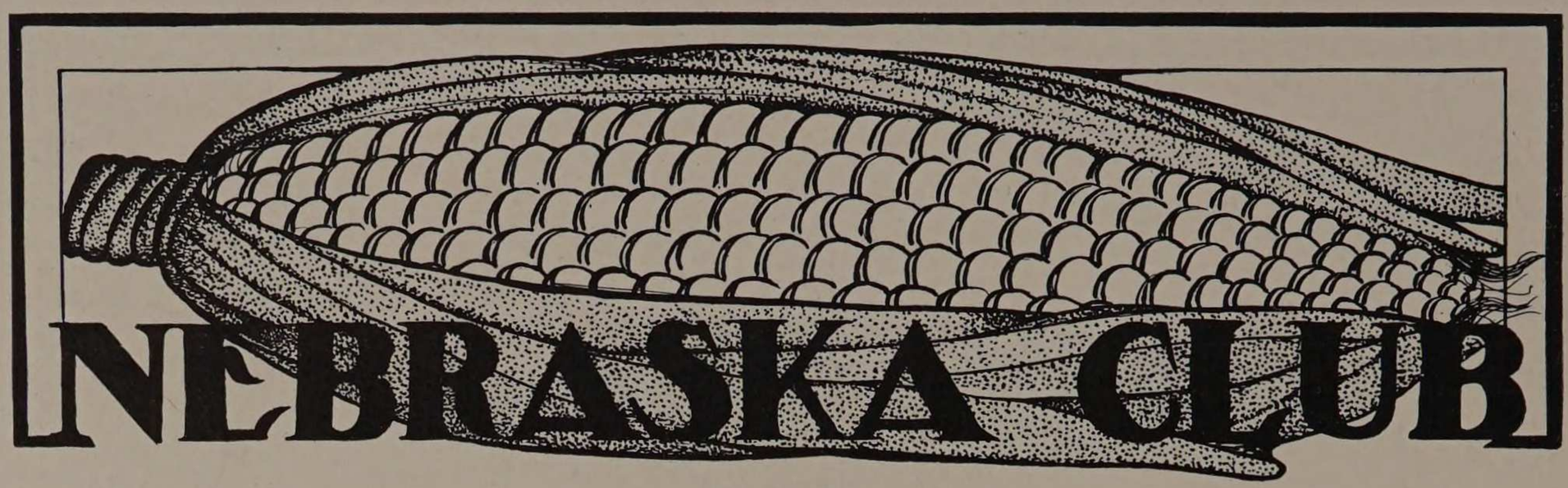
THE Faculty Club was organized at the beginning of the winter term of nineteen hundred and five. The need of an organization for the members of our Faculty to provide a means for social intercourse and acquaintance with each other's work has been felt for several years, but no opportunity presented itself to provide an adequate home for such a society until January 1, 1905. At this time a room in the basement of the Mission Building was found to be available, and steps were immediately taken to organize and to furnish the new quarters comfortably and commodiously. As an instrumentality for the promotion of good-fellowship and exchange of ideas, the Faculty Club is worthy of the success it has attained.



INTERIOR OF FACULTY CLUB

The membership has now increased to forty-seven, and the pressing need for larger quarters has resulted in the occupation of the room adjacent, formerly occupied by the Camera Club.

It is not only the wish of the members of the Club, but of all members of the Faculty, that some time in the near future an organization of a similar kind may be provided for the students to include means for recreation, reading, and companionship.



OFFICERS

President
C. M. LINDSAY

Vice-President
J. L. WRIGHT

Secretary and Treasurer
E. M. BEATY

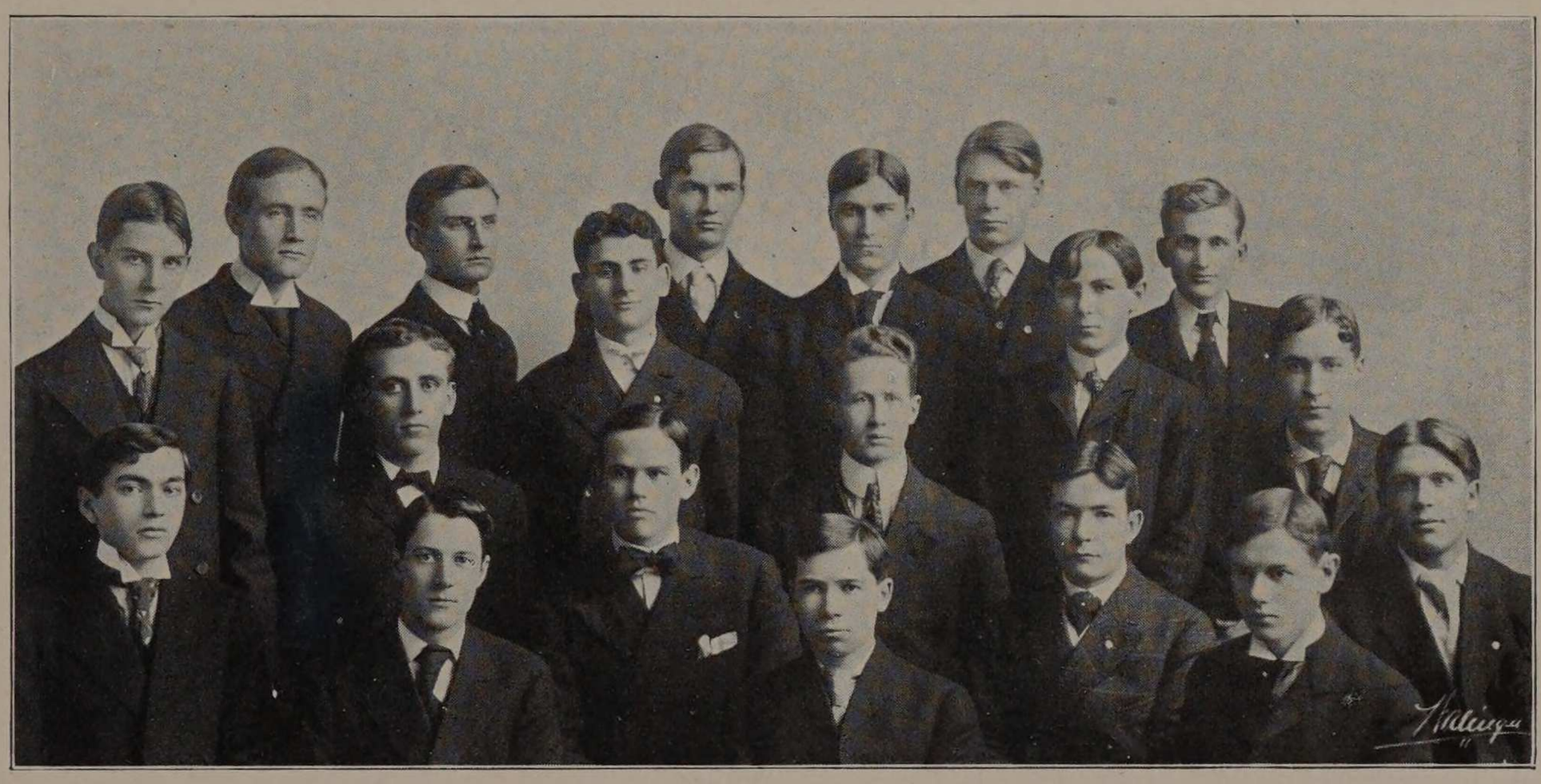
Members

E. M. BEATY	Blair
H. R. BADGER	formerly of Omaha
L. BEXTON	Omaha
H. J. BREMERS	Fremont
F. GRAHAM	Falls City
R. JAQUET	Falls City
A. A. KELKENNEY	formerly of Omaha
C. R. LANGSTAFF	Blair
G. P. LAUBACH	Omaha
C. M. LINDSAY	Omaha
C. J. NELSON	Omaha
R. M. NEWMAN	Fremont
E. M. PINKERTON	Hastings
E. H. RASMUSSEN	Omaha
A. C. RIKER	Blair
S. C. SINGER	Omaha
V. F. VACEK	Omaha
G. F. WOLTERS	Omaha
J. L. WRIGHT	Omaha

THE INTEGRAL

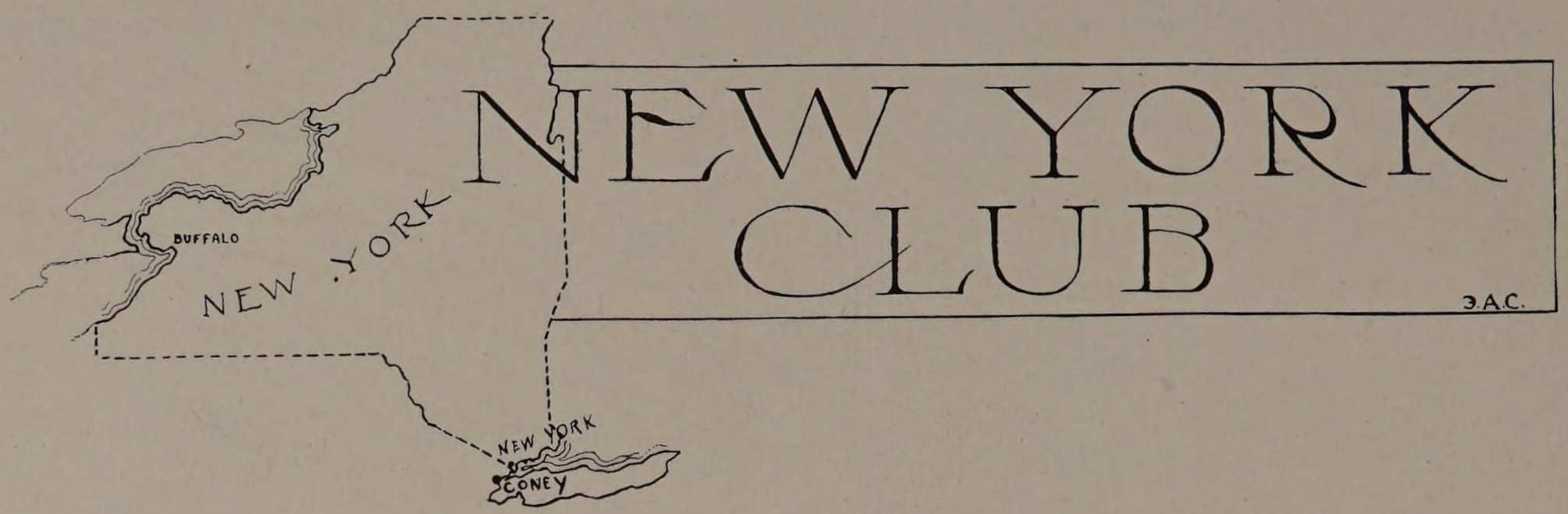
It has been apparent to some that the social life of the Nebraska students could be improved if some form of organization were provided to bring them together, occasionally, in a social way. Accordingly the progressive Nebraskans got together at the close of the winter term and organized the Nebraska Club.

The activities of the projectors led to the formation of a constituency that leaves no doubt as to the permanency of the institution. The membership of the Club comprises some twenty men, every one a true Nebraskan, which in itself bespeaks success for the organization.



Pinkerton Nelson Wolters Bexton Newman Rasmussen Laubach
Riker Singer Langstaff Vacek Badger
Wright Kelkenney Lindsay Jaquet Beaty Graham Bremers

The promotion of good feeling and fellowship among the members is accomplished by having regular meetings of the Club, in which the time is freely spent in social diversions. In addition an annual banquet is projected for the introduction of new members. It is the aim of the Club to assist prospective students from Nebraska in entering Armour Institute and to facilitate their transformation into true Armour students. Moreover the Club endeavors to promote the interests of Nebraska students in general in so far as it can.



NEW YORK CLUB

3.A.C.

OFFICERS

President, F. M. STURGESS

Secretary and Treasurer, H. R. BADGER

MEMBERS

F. M. STURGESS	Buffalo
M. OBERG	Jamestown
H. H. CROSS	Fultonville
E. T. HOLMBERG	Jamestown
C. L. CURRIER,	Buffalo
J. R. HAGELIN	Jamestown
H. R. BADGER	Syracuse

Honorary Member,

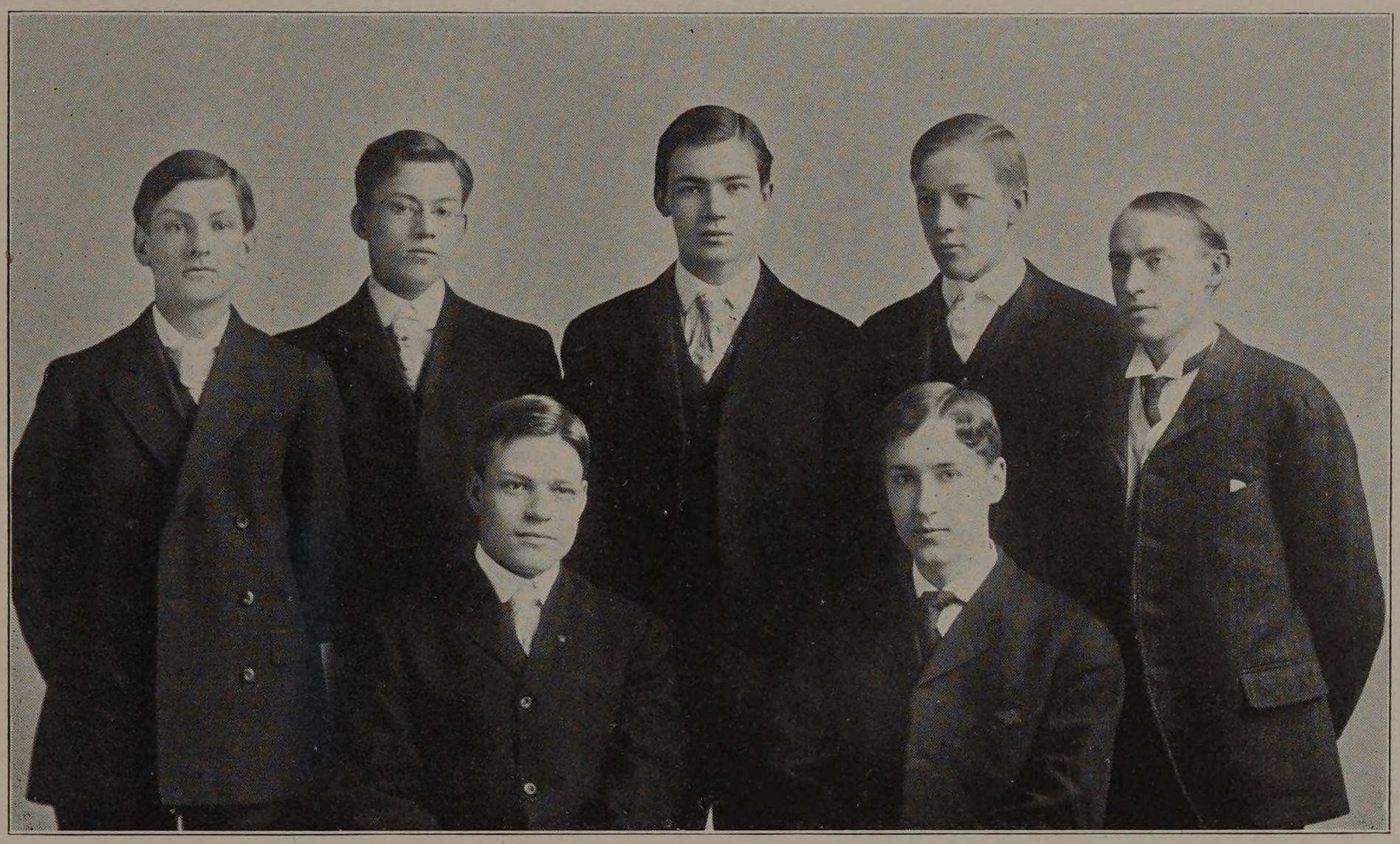
Professor G. W. WILDER

Realizing that outside of the classroom, there should be a means of becoming better acquainted with each other, the students at the Institute from the Empire state decided to form a social organization. Thus on March 12, 1906, the "New York Club" was organized. The object of this club is not only to acquaint the New York men at the Institute with each other, but also to aid new men, coming into the school from this state, in getting started and in becoming acquainted. The membership is open to all men, attending Armour from New York, whether natives of the state or not.

Regular meetings are held each month, and at different times throughout the year various social events are entered into. Shortly after the opening of the college year, a regular social gathering is to be held for the purpose of introducing the new men from the state into the Club, as

well as to put a dash of color into those first gray days that come to everyone when away from home and amid strange faces and environments. The "New York Club" extends to all from the Empire State a hearty welcome and a cordial fellowship at A. I. T.

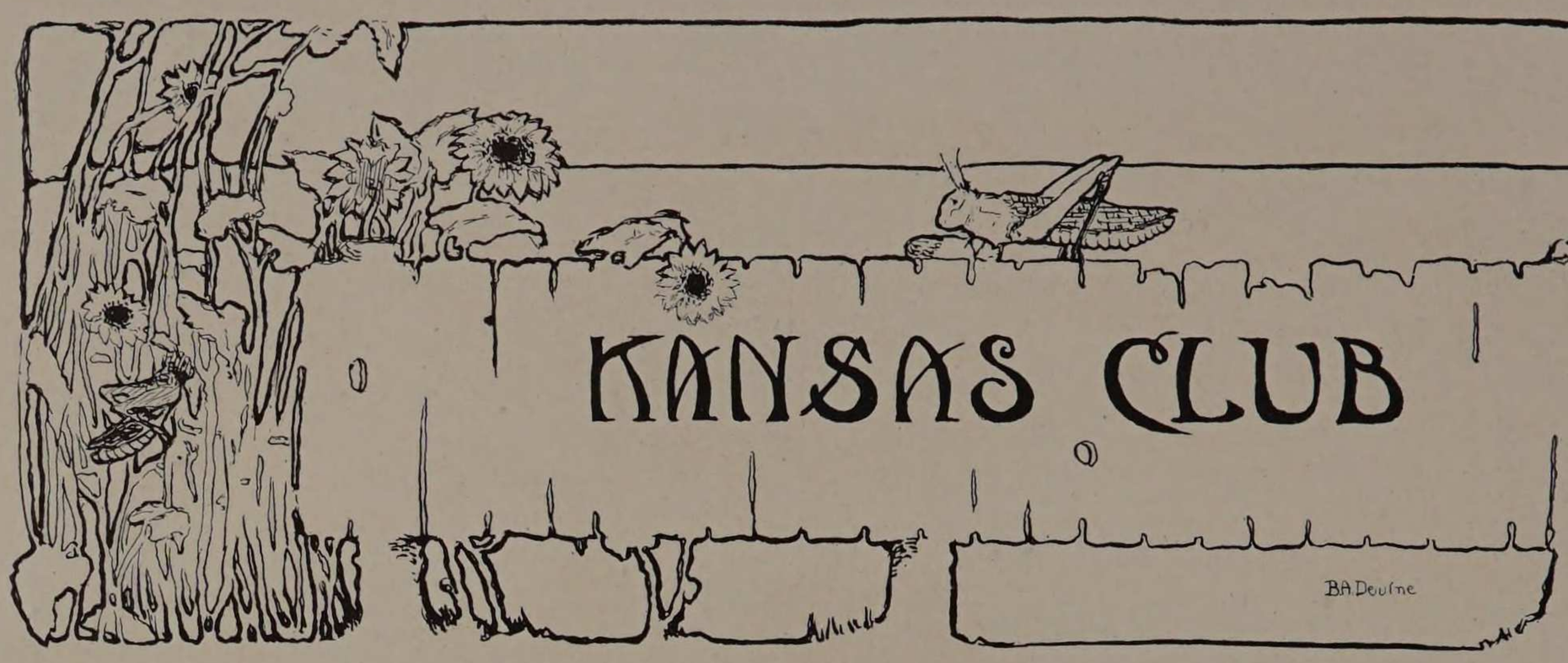
NEW YORK CLUB,
1906



Oberg Holmberg Sturgess Currier Hagelin Badger Cross

Rixey! Rah! Rah!
Rixey! Rah! Re!
New York Club,
Of A. I. T.





President,
E. D. Meyer.

Secretary and Teasurer,
L. B. Jones.

MEMBERS

H. A. Baum, Topeka.
O. R. Benson, Girard.
R. Bunker, Sabetha.
D. D. Dick, Topeka.
C. E. Freeman, Topeka.
E H. Freeman, Topeka.
S. Greenbaum, Newton.
C. S. Henning, Cherokee.
E. W. Jones, Pratt.
L. B. Jones, Pratt.
W. W. Manning, Ottawa.
E. D. Meyer, Hutchinson.
H. W. Robbins, Topeka.
J. E. Saunders, Nickerson.
A. C. Taylor, Leavenworth.
G. M. Wilcox, Kansas City.

THE KANSAS CLUB.

What ails Kansas? She's all right!
Cheers for Kansas! With delight

Men of Kansas, ne'er forget
Honored Kansas, love her yet.

Sunny Kansas, bright the skies;
Starry Kansas, rich the prize.

Heavenward, Kansas! Rough the road
Triumphant Kansas needs no goad.

"Bleeding Kansas," sneered the foe.
"Cranky Kansas, child of woe."

"Starving Kansas; leave the state;
Drouthy Kansas; do not wait."

"Desert Kansas; hope is gone.
Desert Kansas; day will dawn."

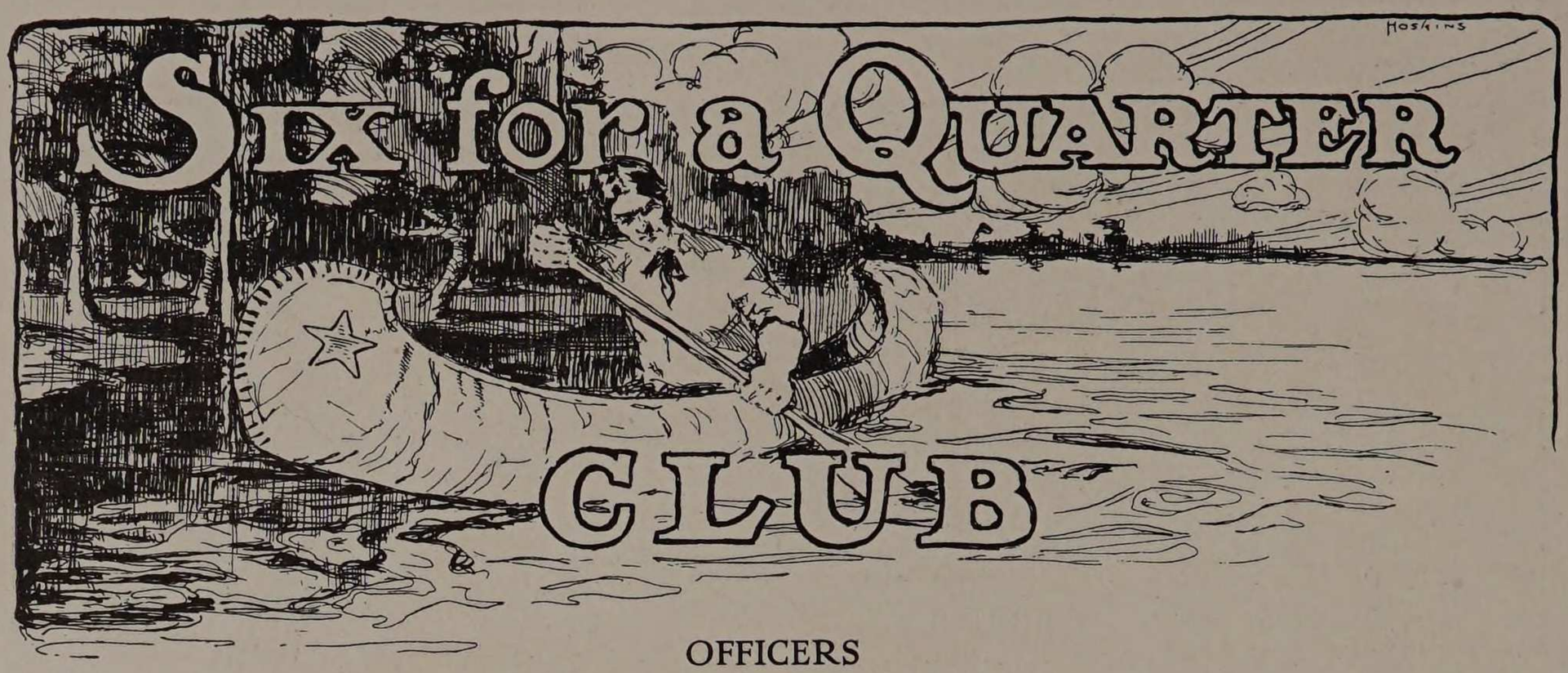
Ho! for Kansas, is the cry;
Fight for Kansas till you die!

Sunflower Kansas, worthy name.
Happy Kansas, free from blame!

Breezy Kansas; first in peace;
Prosperous Kansas; joys increase.

Club of Kansas, A. I. T.
Cheers for Kansas; three times three.


KANSAS
CLUB
FARKAS
BROS.



OFFICERS

Keeper of the Quarter, H. B. MARSHALL

Imperial Six

H. B. MARSHALL — W. G. HOY — L. H. STEM
R. H. STRANG — J. K. THOMPSON — H. R. BADGER

Press Agent, H. R. Badger

MEMBERS

R. H. STRANG, '04
H. J. ASH, '05
F. C. CLARK, '05
P. CROSKEY, '05
H. A. DREFFEIN, '05
R. H. FASH, '05
F. R. GOLDSMITH, 05
W. G. HOY, '05
G. P. LENNARTZ, '05
A. W. MAC MILLAN, '05
H. B. MARSHALL, '05
B. NATKIN, '05
O. A. ST. CLAIR, '05
L. H. STEM, '05
J. K. THOMPSON, '05
M. E. WRIGHT, '05
E. D. MEYER, '06
H. R. BADGER, '07
E. W. JONES, '07
L. B. JONES, '07
And Two

On the 14th of June, 1905, a jolly crew of twenty Armour men set sail from Chicago on the S. S. "Indianapolis," their destination being Michigan City. The ship had hardly been out of port thirty minutes, when the press agent received a wireless to the effect that a great criminal was aboard, one Dreffein by name, the charge against him being "Flirting with Correspondence Girls." An investigation at once resulted in the apprehension of the charged party, who was placed under close arrest. A court was set up in the main cabin, Marshall acting as Judge.

The defendant was then brought forward by Bailiff Wright and the trial instituted. Clark, Attorney for the State, opened proceedings, calling as his witness, Miss Margaret Meyer, who shyly produced a lace handkerchief which she said had been given to her by the defendant and which, she testified, she knew he had obtained from a Correspondence School Girl. The attorney for the defendant, Hon. Walter G. Hoy, masterfully answered the State's charges and protested Miss Meyer as a witness, on the ground that she was not a resident of the U. S. but of Kansas. Finally, the jury adjourned and, after a stormy session, returned the verdict of "guilty." At this point Michigan City was sighted and the court dissolved. Twenty Armour fellows in a small town, and almost famished! It did not take long to sight a restaurant, and less time to reach it. *Some one* got a commission for taking the crowd there. After this, they descended on the Park and the Toboggan. *Six-for-a-Quarter*, — it would be a shame to tell how many rides a certain two from Elgin had that day. Finally it was a swim, and then back to Chicago town on the good ship "Indianapolis." En route the "Six-for-a-Quarter Club" was organized, with the object of an annual outing as its basis. A gay day was that 14th of June, and, when the boat entered the Chicago River, the "Six-for-a-Quarter Club" were "Feeling Fine." *Strang went to the "White City" that evening.*



MISCELLANEOUS ORGANIZATIONS





OFFICERS

President
J. EARL SAUNDERS

Vice-President
ROBERT A. WIGHT

Treasurer
R. H. RICE

Department Secretary
ROY S. SPALDING

Board of Managers

DR. G. L. SCHERGER, *Chairman*

DR. W. A. COLLEDGE
MR. F. U. SMITH
PROF. W. T. McCLEMENT
PROF. C. W. LEIGH
PROF. R. H. RICE
PROF. R. V. PERRY
J. E. SAUNDERS
R. L. REYNOLDS
R. S. SPALDING

The Young Men's Christian Association of Armour Institute was organized in the Fall of 1899. The object of the organization was to supply the need of a club room and meeting place for the students as well as to promote the religious life among them. In the carrying out of this purpose, the Association has been greatly aided by the College authorities, they

BOARD OF MANAGERS
ARMOUR BRANCH—Y. M. C. A.,
1906



Colledge Smith Scherger McClement
Rice Spalding Reynolds Wight Saunders

having placed at the disposal of the Association the rooms at 3324 Armour Avenue, as well as showing numerous other kindnesses.

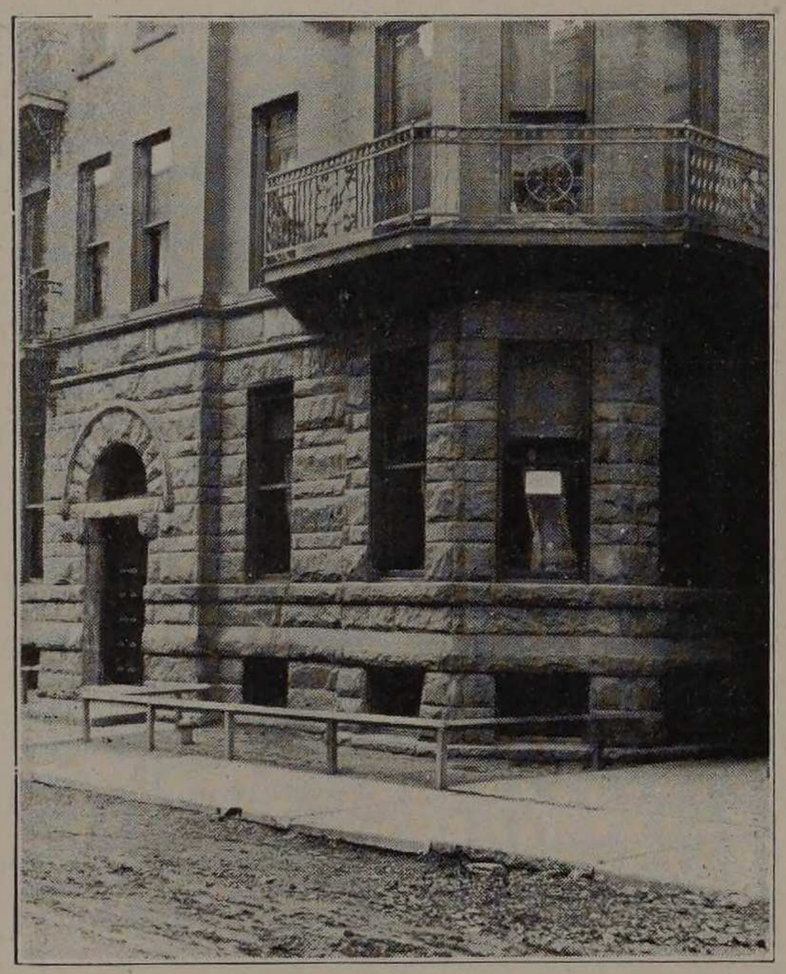
Three Bible Classes meet weekly, thus offering to the students an opportunity to take up a thorough and scientific study of the Bible. Lectures and talks of various kinds are given from time to time with the aim of giving the students something of interest and culture aside from their regular course of study.

It has been the custom of the Association to give an annual reception

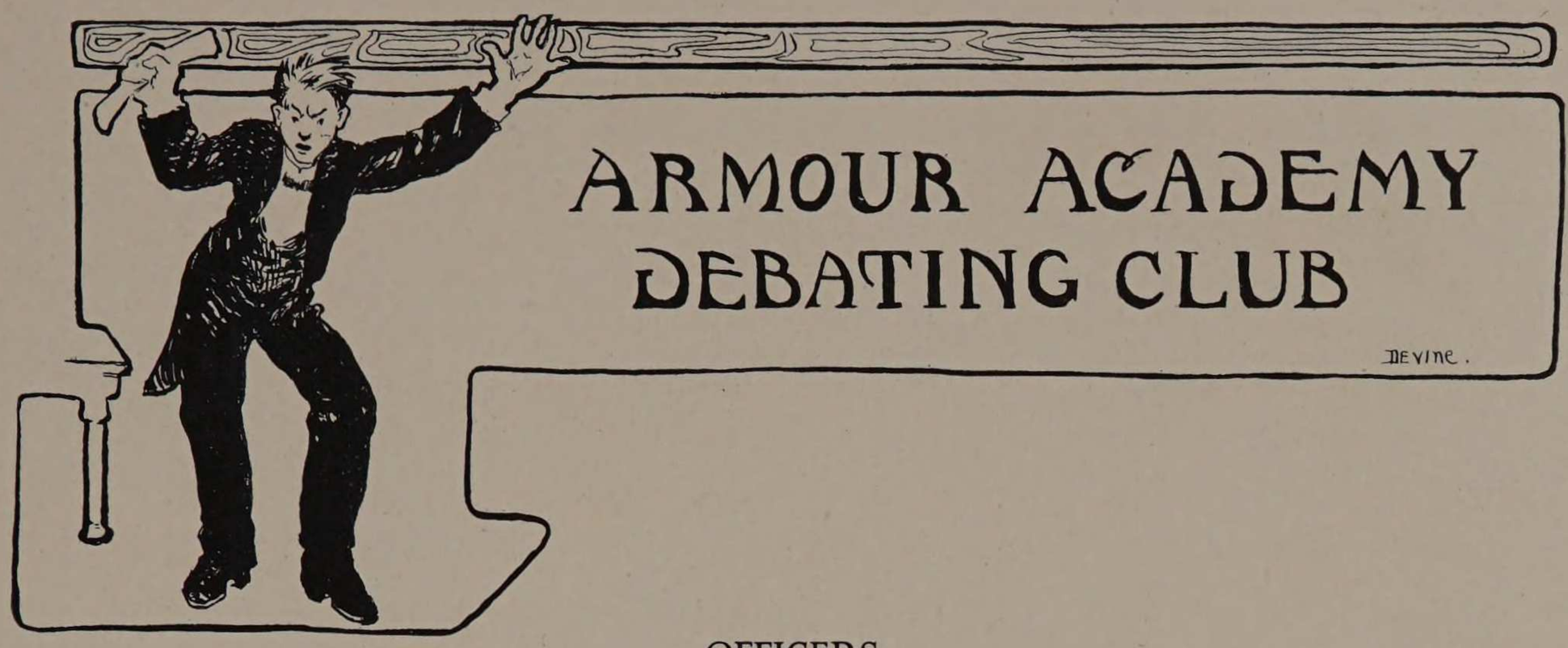
to the Freshmen, in September, each year. Other social events are also given during the year under the auspices of the Association, though these do not follow any regular schedule.

During the past three years the Association has increased very markedly, not only in membership but in popularity and influence among the students. This is due in large measure to the earnest work of the Department Secretary, Mr. Roy S. Spalding. As Mr. Spalding graduates this year, however, the Committee of Management have deemed best to appoint a successor to Mr. Spalding. Mr. R. L. Reynolds, '09, is at present filling the position and it is expected that, under his supervision, the growth of the organization will be as satisfactory as it has previously been.

The Y. M. C. A. House, at 3324 Armour Avenue, is open every day and evening for the use of the students. A number of the latest periodicals as well as a piano and a piano player are at the disposal of all visitors and a cordial invitation is extended to every Armour Institute student to visit the house and to join the Y. M. C. A. and enjoy the privileges of such membership.



Y. M. C. A. "HOUSE,"
3324 ARMOUR AVENUE



OFFICERS

President, LOUIS A. HEYN.
Secretary, RALPH BETTLES.
Treasurer, ADRATH E. PAY.

MEMBERS OF TEAM

Representing A. S. A. in the Inter-Academic Debating League

ARTHUR O. SPIERLING, GUSTAV H. STEUER, PAUL P. BRINKMAN,
LOUIS A. HEYN, Alternate.

The Academy Debating Team is annually selected from among the number of candidates who appear at the trial debate. This year, when the date set for this had arrived, there were but *two* men who presented themselves to try for the team. Thus the date of the try-out was postponed. Even at this deferred date, the showing was worse, and an open discussion of the question was resorted to, the audience partaking.

In spite of this general lack of enthusiasm, three men—A. O. Spierling, G. H. Steuer and P. P. Brinkman—with L. A. Heyn as alternate, were selected to represent the Academy in the Inter-Academic League Debates. The first of these came on January 12, 1906, at Evanston. The question to be debated was "Resolved: That, in trial by jury, an agreement of three-fourths should be sufficient to render a verdict." Armour had the affirmative, Northwestern the negative. Our team had good speeches worked up on the subject but lacked in the power to deliver them forcibly. The judges were Dr. George, President of the Chicago Theological Seminary; Mr. Schobinger, Principal of the Harvard School; and Dr. John Balcom Shaw, Pastor of the Second Presbyterian Church of Chicago. Their decision was unanimous in favor of the Negative.

Both Dr. Scherger and Professor Colledge take an active interest in Academy debating, and to them much credit is due for their kind assistance. Yet, if Armour Academy is to win another debating championship, as it did in 1903, there must be some *real* interest shown by the Academy students at large.



ALUMNI ASSOCIATION



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Vice President, R. M. HENDERSON, '02

Recording Secretary, H. B. MARSHALL, '05

Corresponding Secretary, E. H. FREEMAN, '02

Treasurer, R. V. PERRY, '97

Master of Ceremonies, C. L. TARBELL, '99

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Composed of all Officers

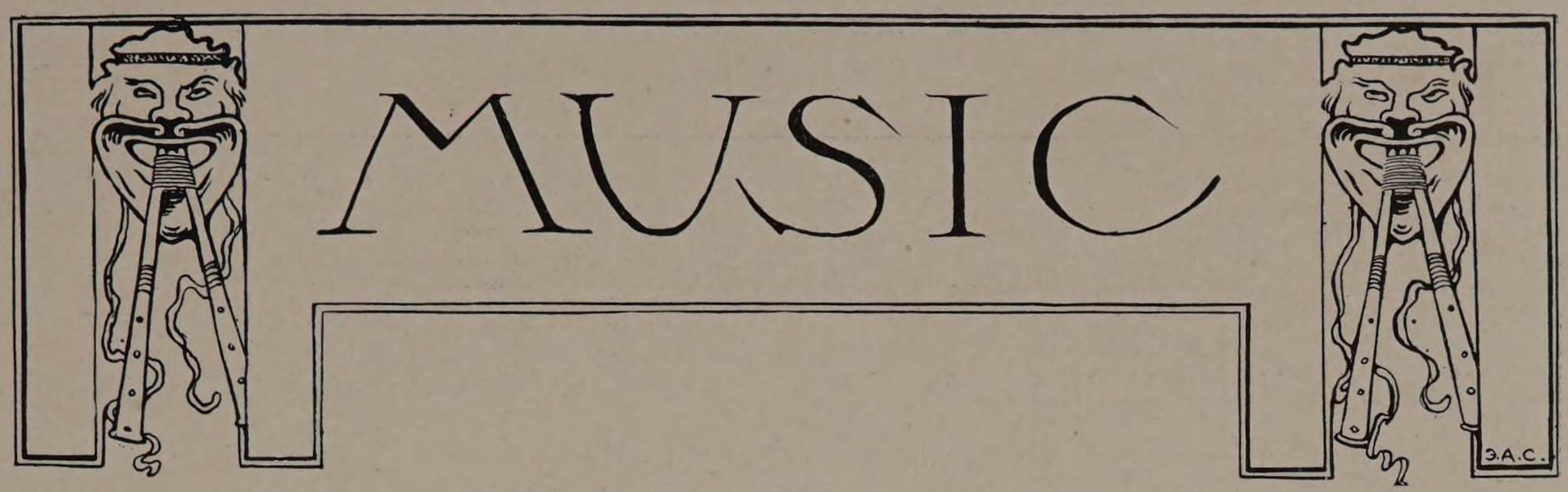
Pin Committee

A. S. ALSCHULER, '99 C. E. FREEMAN, '97

The regular June meeting of the Alumni was held at the Union Restaurant on the evening of June 13, 1905. It was attended by a large number and included, of course, the Class of '05. All partook of a very fine spread, after which the regular annual business meeting and election of officers were held. One of the features of the evening was an unexpected visit from Farmer Brown of Oskaloosa, who lived next door to our friend Huey's, and who had so many jokes on tap that they stepped on each other's toes.

One of the important developments of this meeting was the establishmen of a branch of the Alumni Association at Pittsburg, Pa. This branch is composed of the Armour men who are working for the Westinghouse Company in that city, and from reports it would seem that they are thriving very well and having some very interesting meetings.

The Fall banquet was held at Vogelsang's on the evening of December 23, 1905, and this also was well attended. At this we were fortunate enough to have the presence of President Gunsaulus, President Alderson of the Colorado School of Mines, our former Dean, and Professors Wilcox and Phillips, besides those of the faculty who are active members of the Association. With the "grub," the speeches, and the drums and tin whistles in the next room a very enjoyable evening was spent by all who attended.



Little in the musical line has been accomplished at Armour, during this past year. The Glee and Mandolin Clubs languished through lack of support, as noted on the following page. An Orchestra was formed under the managership of D. D. Dick, which rendered several very excellent numbers at the Freshman Smoker. The men continued weekly practice for their own enjoyment, until the Fall Term closed. The members of the Orchestra were:

Conductor,
S. V. JAMES.

First Violins—
D. D. DICK,
C. DENNIS.

Second Violins—
F. C. VAN ETTEN,
E. B. HAMILTON.

Viola—
E. F. Hiller.

Cello—
C. E. HAYES.

First Cornet—
H. W. YOUNGBERG.

Second Cornet—
L. J. CALDWELL.

Flute—
E. H. ELLETT, Jr.

Clarinet—
H. J. ROGERS.

Piano—
L. W. BUNGE.

Traps—
W. O. LICHTNER.

Mr. Daniel Prothroe has twice sung to enthusiastic Armour audiences. At the Freshman Smoker and at a recital in the Mission, his "Danny Deever" and "Philadelphia" have set the hands clapping vigorously, while several of his sentimental songs, at the recital, were greatly appreciated. Dr. Scherger, Professor Leigh and Mr. W. G. Smith of the faculty, and Sydney James as violin soloist, have frequently helped out at various affairs.

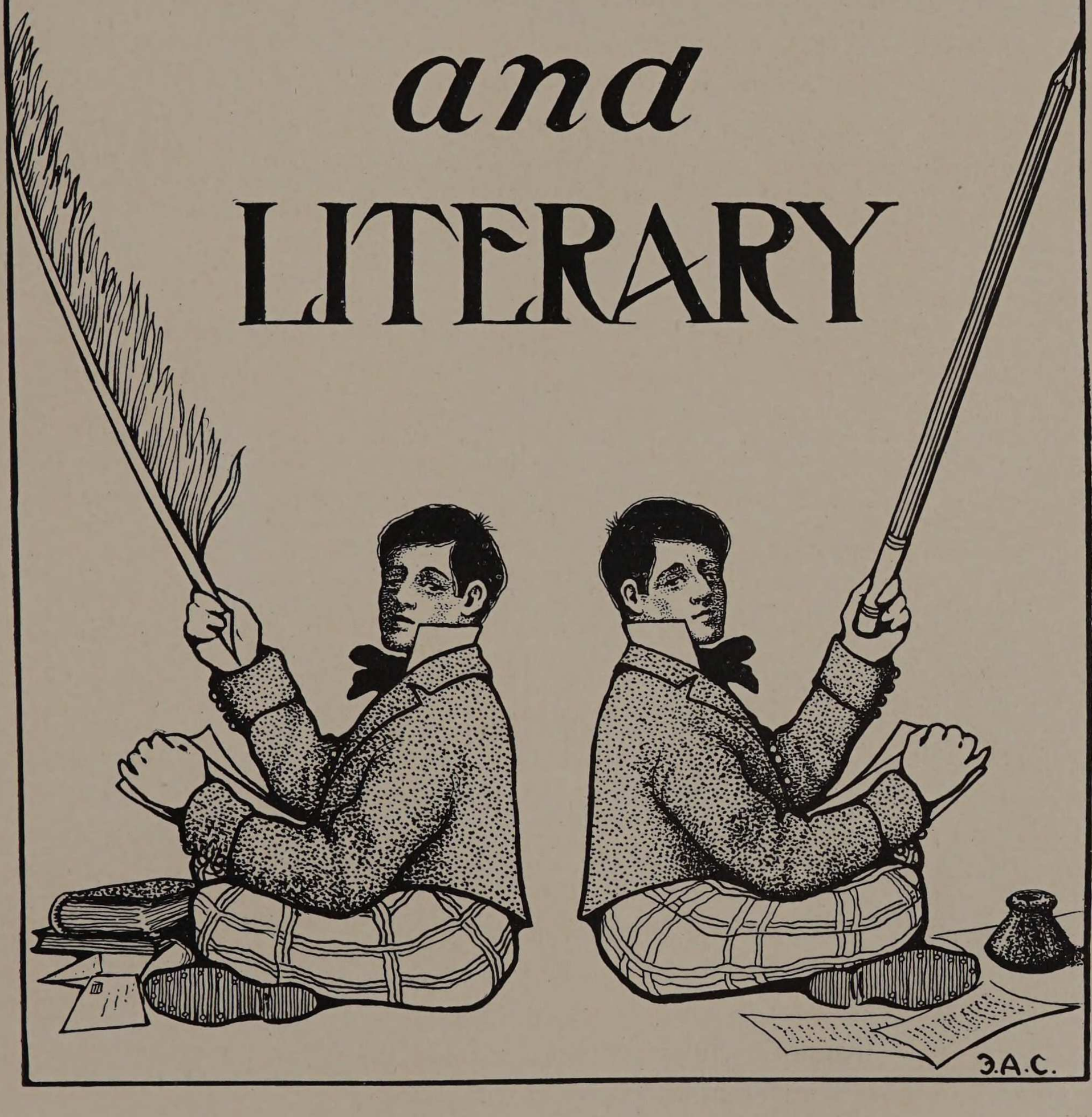
Glee and Mandolin Clubs.

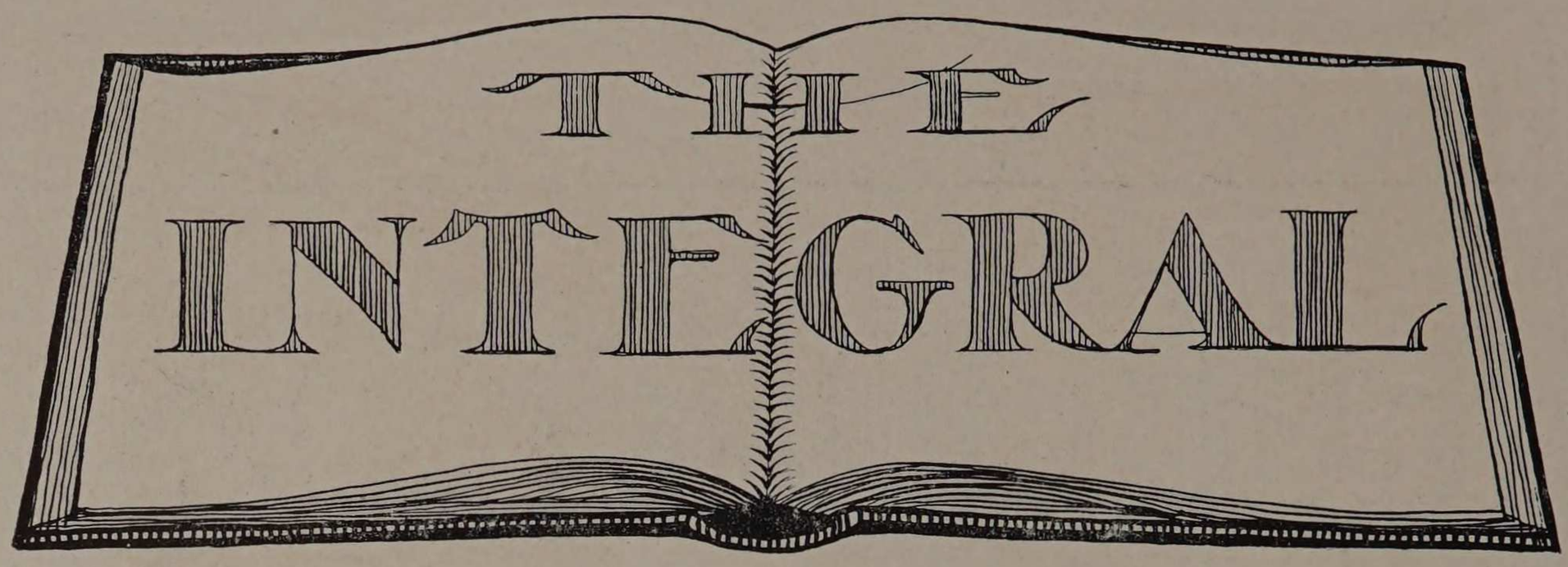
Great indifference has been displayed by the student body this year as to whether or not there were Glee and Mandolin Clubs. The men of last year's clubs, upon whom reliance is always placed in building up a new organization, refused, almost to a man, to come out to rehearsals, pleading the well-worn excuse of lack of time. Accordingly, first the mandolin and then the glee club were forced to disband, the former really not having got started. Owing to the excellent quality of the concerts of last year's clubs, much was expected in music at Armour this year, and it was with great disappointment to all concerned that the students at large displayed so little interest in them.

This state of affairs was undoubtedly due in a great measure to the change of managers, resulting from the death of L. R. Levings, who had been elected manager for this year at the close of last season, and who would have put all of his enthusiasm and energy into the turning out of a successful organization. At the opening of this year no one was willing to take the place of manager, and the office went begging. Finally, a temporary manager was elected, candidates called for and rehearsals started. Mr. W. G. Smith of the faculty volunteered to direct the organization. In December, Mr. Ellett was elected manager, but so few men responded to the call for candidates that rehearsals were abandoned.

However, "only the good die young," and the clubs thus far had not been good. The manager made a personal canvass of the school and pledged over forty men to come out for rehearsals. Again, a regular rehearsal of each club was called for, during the last week of the Winter Term, and to this, about twenty men all told responded. Plans were made for a home concert to be given during Junior Week, in May. Regular rehearsals for this were commenced in the early part of April. Mr. Smith, director of last year's mandolin club, was engaged for the same position this year. Thus, despite the fact that the clubs met nothing but discouragement for a long time, there is, nevertheless, some record of work accomplished.

PUBLICATIONS *and* LITERARY





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Academy—W. HILL and C. BOYLE, Jr.

"The Integral" is the student annual of Armour Institute of Technology. It is published by the Integral Board for the Junior Class of the College of Engineering, from which class this board is chosen. To the Class of '98 belongs the credit of starting the book as a college annual at Armour. Their issue—the first Integral—was published in the Spring of 1899, W. D. Mathews being its Editor-in-Chief. E. S. Roos, a member of this class, has the honor of naming our annual "The Integral," a name so truly appropriate in every way. Since then each class of the college, with the one exception of the Class of 1903, has issued an Integral during its Junior year. From the first there has been a gradual development in the book—for the better,—succeeding boards adding new ideas to its make-up. When compared with the annuals of other colleges, of same size as Armour or even larger, "The Integral" does not suffer in the least, its standard always having been maintained very high. The Board, this year, have put forth every effort that Volume VIII might keep up to, and in places, advance this same high standard. As to its success or failure in this, you may judge.



A·A·KELKENNEY·



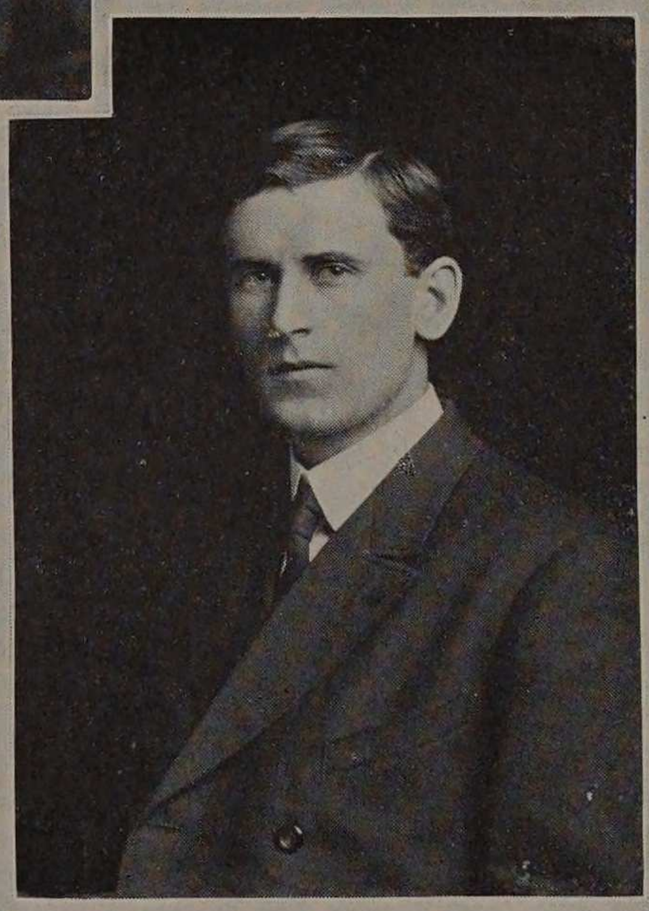
M·V·STAGG·



H·R·BADGER·



·L·B·JONES·



·M·GILMORE·

THE INTEGRAL BOARD
1905-06

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1905-06



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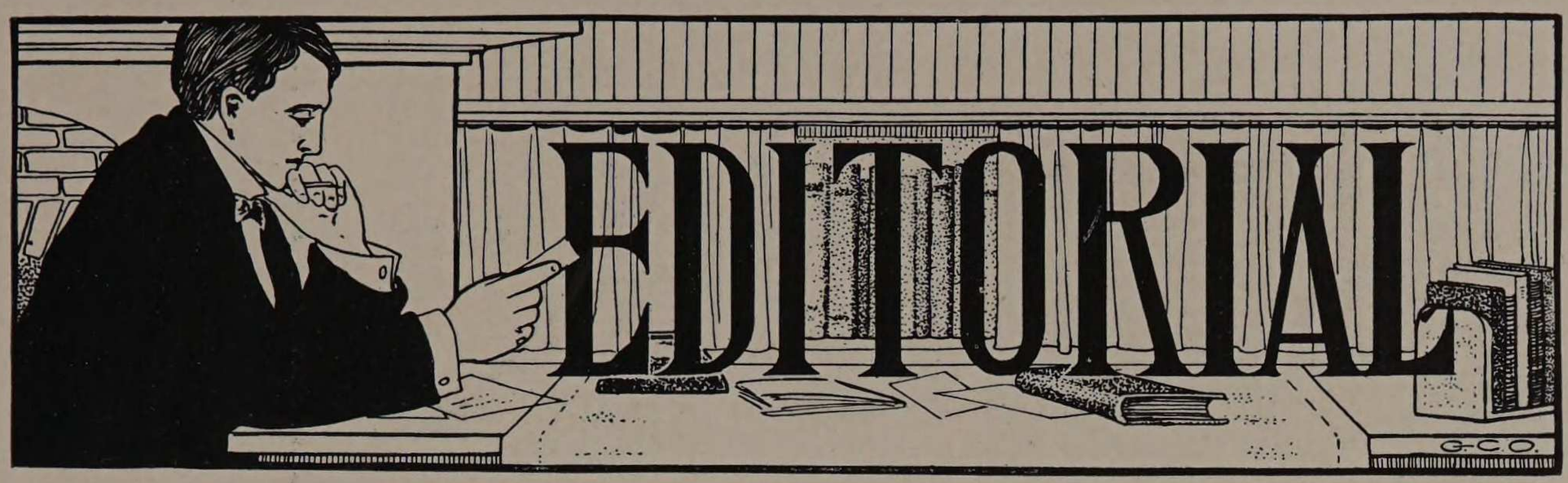
THE INTEGRAL

THE FULCRUM, the monthly publication of the Armour Institute of Technology, being published by the Sophomore class each year naturally changes its policy somewhat with each new editorial staff.

This year its aim is not so much to supply the student with technical articles or stories valuable in literary art as it is to supply news, records, jokes, etc. The idea is even fostered that if the students want to read technical articles or other literature they will use the Library, which is rich in just such reading matter. Nevertheless each month an article by one of the faculty and sometimes several articles by students are published to give the paper a substantial aspect. Whenever possible the best theme of the English class for the preceding month is published.

The jokes are a special feature of THE FULCRUM this year and appear in two forms:—"Owls" and "Owllets." The Owls are short stories or "take-offs" written about different members of the school. The Owllets are generally cute or ludicrous mis-sayings of, or comments on, the members of the faculty or student body. The athletic section gives full reports and line-ups of all the games as well as schedules, announcements, and comments. Another special feature of the paper is the News department, in which accounts are given of the various lectures, class-meetings, and other events of interest around the school. This section is large and is given particular attention.

The above policy of THE FULCRUM is being carried through the entire year, though several important changes have been made in the staff. Walter Eyers and Harold S. Ellington were elected Editor-in-Chief and Business Manager respectively for the year 1905-06. But after several months, other work of Mr. Eyers' increased and in December he was obliged to resign his position on the staff. Edwin H. Stillman was elected to succeed him. This and other changes have left the staff and representatives as previously given.



LOUIS RAYMOND LEVINGS began his career at Armour when he was thirteen years old. He attended the Academy for four years, and had completed his Junior year in College. During this time he had shown himself to be a man of unusual capacity, of exceeding versatility. As no other man at Armour had ever done, he entered into the athletics, music, publication work, and in fact, all of the student activities of his school; and this with a refreshing enthusiasm that carried to successful termination everything that he undertook. Yet together with all this his scholarship standing was almost unsurpassed, for, no matter how busy he was with other affairs, he never allowed this to fall. This was one side of the man—his wonderful ability. But there was another and deeper side to Louis Levings; a side that endeared him to all who knew him. This was a certain nobleness of manhood, a certain fineness of character that pervaded his whole life. There was something in the strength of his personality that showed him to be a *man*, and in his disposition there were the finer strains of a tender sympathy that bespoke him ever a *gentleman*. His loss has been very great to Armour, though he has here left behind him a memory rich in example. We admired Louis Levings for his wonderful ability, we respected him for his manhood, we loved him for his sterling character.

OUR POSITION—AND YOURS

THE editorials of previous Integrals all point to the deplorable fact that the students, as a whole, do not show any interest in *their* college annual other than *seeing* the finished book. The value of the publication to the Institute and to the student life of the Institute is not doubted for a moment, though there are a very few, and we are thankful that but very few, who would not care whether Armour issued an Annual or not. However, *most* Armour men are glad to see a book issued each year, though when it comes to actually aiding the publication of the annual, no matter if ever so little—well, that is another question, and The Integral, which represents the *whole* school, continues to be the product of a *few* men in the school. These few men, in getting out their college annual, must labor with unflinching zeal, ready and willing to make any sacrifice that the welfare of the book demands—whether it is to sit up all night "Integrating" or to cut a day from school for the same cause. These sacrifices are far from pleasant to make, although the students and faculty alike look upon them as being done for the pleasure (?) in them. This is what hurts, as do the unjust criticism and complaints given by those who have not even raised a hand to aid the book, to say nothing of bettering it. If instead, these persons would give a little *real* encouragement and help, it would be all that is asked. For the welfare of future issues of The Integral and for the sake of the poor fellows that have to get them out, we ask, and justly so, that *you* do what you can for *your* college annual, and do it promptly.



The Morning Star

I

Morning Star, that greets the gray,
Ho! thou messenger of day,
Regent of the furling pall,
Hold thy scepter over all.

Golden dawning is thy throne
Where the last fleet shade hath flown
And star-jeweled night thy crown—
Day from night above the town.

Mark thy realms ere it depart.
Lo! the wonders of thine art
Change a world of sleep and dream
To fair Life with light agleam.

II

Morning Star, why art thou gone?
Brooks are babbling in the dawn.
Larks are searching after thee,
Sailing o'er the sunlit lea.

Fields are calling soft and low.
Buds to blossoms sweetly blow.
Come to sip thy recompense.
Why this still demise from hence?

III

Morning Star, thy sacrifice
Martyr-like did well suffice.
Thy passing till another night
Hath given countless millions light!

—*CLARENCE VREDENBURG.*

"The Call of the Wild."

It was Junior Week of the Class of '25, and at the Institute many of the Alumni had gathered to witness the fun and frolic. Around a table in a private room in the Audubon were gathered a few of the old Class of 190—. Among this little number was Wayne, the servant of the public good at college, rather worn to be sure, but what can you expect when one is Secretary of the Commercial Association of a city of 100,000, an active political worker and interested in promoting several visionary projects? Then, there was Buchurch, now manager of the great actor, Mr. Rudolph Manlot, famous for his wonderful electrical scenic effects; Krane, President of the great Worthington Electric Industries, whose picture appears regularly in the publications of Europe and America under the caption of "America's Greatest Self-Made Men," and Jammer smoking the proverbial big, black cigar such as he consumes when putting through one of his big equipment contracts. As in the days of old, Wayne seemed to be carrying the conversation.

"Gentlemen, do you realize that around this table are gathered the principal members of the Staff of the old 'Prop?' Only Tenth is missing. I did my best to get word to him, but the latest address I had was nearly ten years old, and that was Gotebo, Oklahoma. I wrote him there, but as I have received no answer I presume that he never received my letter. As you know, he didn't graduate, but left before his Junior year. However, as most of the Staff are here, I propose a toast to the 'Prop' and to the old Class of 190—."

As the four rose to their feet to drink the toast, the door of the room opened and a ruddy face was thrust half way into the room. The eyes of all were turned to survey the intruder, who instantly broke the silence with "Drink to the old Class, fellows, and let's be merry together." At this Krane, who was nearest to the door, dropped his glass to the table and, opening the door with his left hand, grasped the stranger with his right, pulling him rather forcibly into the room. As the figure came into full view, there were various exclamations uttered. "Well, Jim, you old reprobate!" came from Wayne. "We've just been talking about you." "A case of speaking of the devil and he appears, I suppose," ejaculated the unexpected Tenth. Then, as they crowded around to shake hands, there was a rapid-fire string of questions—the men of fifty were still the boys of 190—. "How's the elusive B. S.?" "Where in the world have you been keeping yourself?" "Are you a farmer or just a millionaire?" And so on, until Tenth raised his hands to stop the turmoil. "Gentlemen," he began, "I cannot talk till I get this dreadful city dust out of my throat, so I insist that you drink the toast proposed." After the ceremonies were over and the waiter had retired, there were further demands for Tenth's history.

"Well," he began, "I may as well begin at the beginning, though you all know most of that. When I left college to go on that survey, I guess you

appreciated as well as I did that it was a case of get out or get fired. So I 'got,' but when I left I fully intended to come back the following Fall to finish my course. As you all know, I did not, because I fell into what seemed like a pretty nice position and I staid with it until the next Winter, when I had something better offered me here in Chicago with the stipulation that it was to be permanent. When I first got back to this city I had a little money and the town with its pleasures and attractions seemed like paradise compared to the surroundings I had while on the survey in the Southwest. But after a time I began to hanker for the treeless plains of Texas. My father's father was a dyed-in-the-wool farmer, and his blood in my veins must have made me feel that incessant 'call of the wild.' Finally it became so bad that I got fired from my Chicago job—first and only time I ever was, though—and I felt like jumping into the lake. As I still had a little money, I answered the 'call of the wild,' and left civilization for the plains of Texas without saying a word to anyone.

"I had met a big rancher down there when I was working for the railroad, and he gave me a job as sheep herder. I put what money I had into sheep, took out a claim, and in about six years was worth $10,000. Then, just when I was ready to show myself back in Chi.—as evidence that a diploma was not necessary to success—there came a dry year, and I went broke, losing my sheep by the hundreds every day. Up against it again, I went to Oklahoma and got a job at $15 a month on a ranch out there. One day when I was riding over the country, looking for water, I came to a place that appeared to be a dried-up spring. Here, in the center, was a sort of basin, containing a little water, and around it on all sides were strewn black rocks. I was very thirsty, yet could not drink this water, for it tasted so much like oil. That taste staid with me so long that I got to thinking about the matter, and began to study the country and paw over the geology I was supposed to have learned at college. I came to the conclusion that there was oil in the vicinity, and I decided to make a try at reaching it. So, when I had saved enough money, I put down a well—only had to go about 160 feet, too. After that things went easy. The greatest oil boom that Oklahoma ever saw resulted, the field being traced as far down as Indian Territory. Some people made millions, and, thanks to my knowledge of oils gained at Armour, I picked out some properties, early in the rush, that produced oil which presented a good refining proposition. Then the Standard came in, and I sold out, but with a few thousands to the good. I went at once to my old ranch in Texas, and there I am located now, with as nice a bunch of sheep as ever was raised.

"It all sounds like a page from a novel, yet it has all come to be a living reality to me. If it hadn't been for what I learned at Armour I never would have located that oil. So, boys, let's drink another to her and to the old Class of 190—."

N.

Five Men in an Auto

A Chapter *of* AUTObiography de Luxe

By

Clarence Vredenburg

'Twas 9:05 P. M. of a starry spring night. Who fancied that its sable silence was pent with romantic adventure? Outside, the wind breathed softly among the bushes and trees of Jackson Park, the moon glinted on the lagoon and the Museum showed her classic shadows near the mystic lights that dully shone o'er the Grecian landing.

Toot! Toot! Chug! Chug! B-z-z-z-z! Bang!

Faith! it was an automobile right in front of my boudoir. A rap on the door. A silence. Then they came romping in, filling my apartment with witty repartee. There were the James brothers, he of the corporation and mild disposition and he of the strong right arm. They are known as the Hall Room Boys of the Kansas Club, and the latter, erstwhile famed from Topeka to Wichita as "Engineer," is Chauffeur Plenipotentiary to Armour Inn with the startling pet name of "Mulek." It is a terrible handicap, but he vows to live it down. Then there was Harry W. Jordan, C. A. C. C. A. C., his degree, stands for "Caustic Automobile Critic." Jordan is the man who has gained world-wide renown for his intuitive ability to tell a Mercedes from a Pope-Toledo ten blocks away with his eyes closed and his fingers crossed. Casual comment might give honorary mention to the fact that he can tell a blonde from a brunette after he has looked at both. Last, but far from least, came our genial friend, H. Roland Baker.

Fancy such a company as this in your boudoir! How'd you like to be the host? Gently they seated themselves, looked at the walls and then gave expression to that quaint expression so often heard in Armour Inn:

"Holy Cow!"

Too bad Shakspere didn't get that. Still, there is hope—Eddie Foy could bring down a Monday night house with it.

But home, no matter how happy, did not seem like the old place with that machine standing outside. Soon we were tucked away in the auto robes, twist-

ing among the circuitous roads in Jackson Park. We neared the icy lake. Horrors! Was Mulek bent on foul intent? With a terrible bound the auto, like a living thing, made a spurt for the beetling precipice and sullen swash. Alas! Dean Raymond was not there to see. I saw a terrible flunk ahead. The grade looked like 23. I thought of the loved ones at home, of my past life, of the things I wished to do. A moment of terrible suspense held me in its torturing clutch. Then a grip of steel guided the machine into the road, and we were safe. I kept my hand on my watch, and felt vastly relieved.

There is rest in an auto voyage. We came nearly getting arrested. As we got out of Kenwood and whizzed down Michigan avenue, we had an overpowering sense of the fact that—"It is a long road that has no turn."

Five men in an auto!

I figure we sounded like 2,896,784 assorted megaphones. The Bernhardt tent nearly collapsed as we passed. One of the lions in front of the Art Institute purred and the careless person, standing on a private cloud above Montgomery Ward's tower, actually yelled after us:

"Get a horse!"

All the little microbes in the Chicago river chirped merrily as we whirled over the Michigan avenue bridge and made for the Lake Shore Drive and Lincoln Park. As we swept up the north shore, all of the animals in the zoo gave us a noisy jungle salute. It was a veritable "Call of the Wild."

Up on Sheridan Road, we took time to leave our names in a certain letter-box. The hour was late and the inmates of the residence had retired. So we stole away into the silent gloom. We understand they were sorry they missed us. It's poor shooting—missing five men in an auto.

The trip back was a breezy one. We stopped at the water works to water the auto. In this we noticed that an auto resembles a horse—also in many other things. An auto snorts, balks, runs away and costs money. It's a mechanical plagiarism of our well-known domestic quadruped with a cultivated taste for green grass. Too bad Phoebus or Boz, the original horse thief, didn't have this useful animal copyrighted.

Jordan had sworn off smoking for the 111th time, about two days before. So he was eligible to pass around the cigars. And we had to smoke them, just so as not to hurt his feelings. Engineer is doing well and hopes to be up and out again in a few days. He says he nearly feels like himself again. Really, they were good cigars.

We stopped at an Oriental hostelry downtown and partook of a well-

known Chinese dish, also a beverage. I am feeling pretty well, considering. Chop suey is a sort of "don't care" salad. After you eat it, you don't care if you live or die.

There is a certain fascination about motoring that neutralizes the danger of it. I remember a sudden yelp from me kept our chauffeur from climbing on the sidewalk at one stage of the game. The motto of Mulek at times seemed to be: "Hitch your wagon to a star."

Withal, the trip was one to be remembered. As the machine swerved into Garfield boulevard and whizzed down the Midway toward my home, nestling under the edge of Jackson Park, I felt that a very enjoyable experience was about to culminate, although the hour was 1:05 A. M. It drew up with an easy stop before my door and I alighted, surrounded by handshakes and wagging tongues.

I don't believe that Noah's trip in the Ark, that Jonah's voyage in the whale, or that Dr. Dowie's return to Zion City will ever rank in history with the spring night excursion of the five men in an auto. Messrs. Baker, Jordan, James and James concur. It was a quest of the highways with knights of the pen, the crayon, the cigar and the armature.

I understand that the vaudeville brothers, James and James, can be seen nightly in their comedy sketch, "Motoring." Their fame is spreading and their popularity increasing as the little acorn.

Since the trip, all of us have been annoyed by reporters requesting our photographs, etc., etc. We have been in receipt of tender missives from damsels who would "like a ride," especially Mr. Baker, the Armour beauty. I cannot see, after a maid has gazed into his large blue eyes, how she can fail to fall captive to his charms. Mr. Jordan also has a letter.

Despite our growing notability and the fame of Armour Inn, none of the three inmates of that hostelry basks long in the rays of admiration or the pangs of undue cerebration. They are all intolerably busy. L. B., the little sunshine of their home, when writing to the folks and inadvertently suggesting the rigorousness of finances in a great city, touches a tender spot with this:

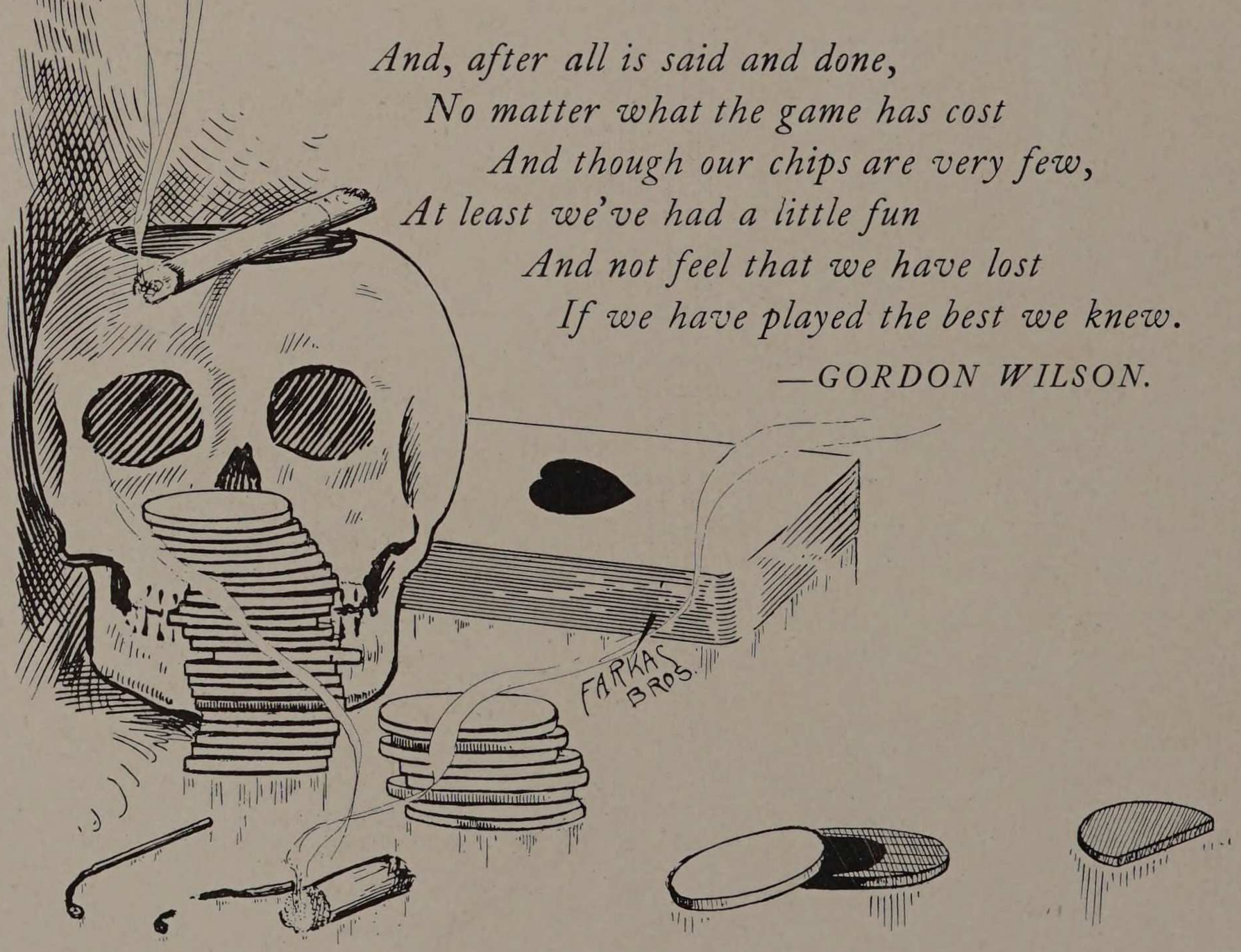
"We are all working night and day picking blossoms off century plants."

LIFE

We do not deal the cards, 'tis true;
We may not choose the ones we draw.
At times, we get a deal that's raw
And prospects look extremely blue.
But there is one thing we can do;
Assume a smile and make a bet—
The other's hands may be worse yet,
Perhaps the bluff will pull us through.

And, after all is said and done,
No matter what the game has cost
And though our chips are very few,
At least we've had a little fun
And not feel that we have lost
If we have played the best we knew.

—GORDON WILSON.



ATHLETICS



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1905-06

ATHLETICS

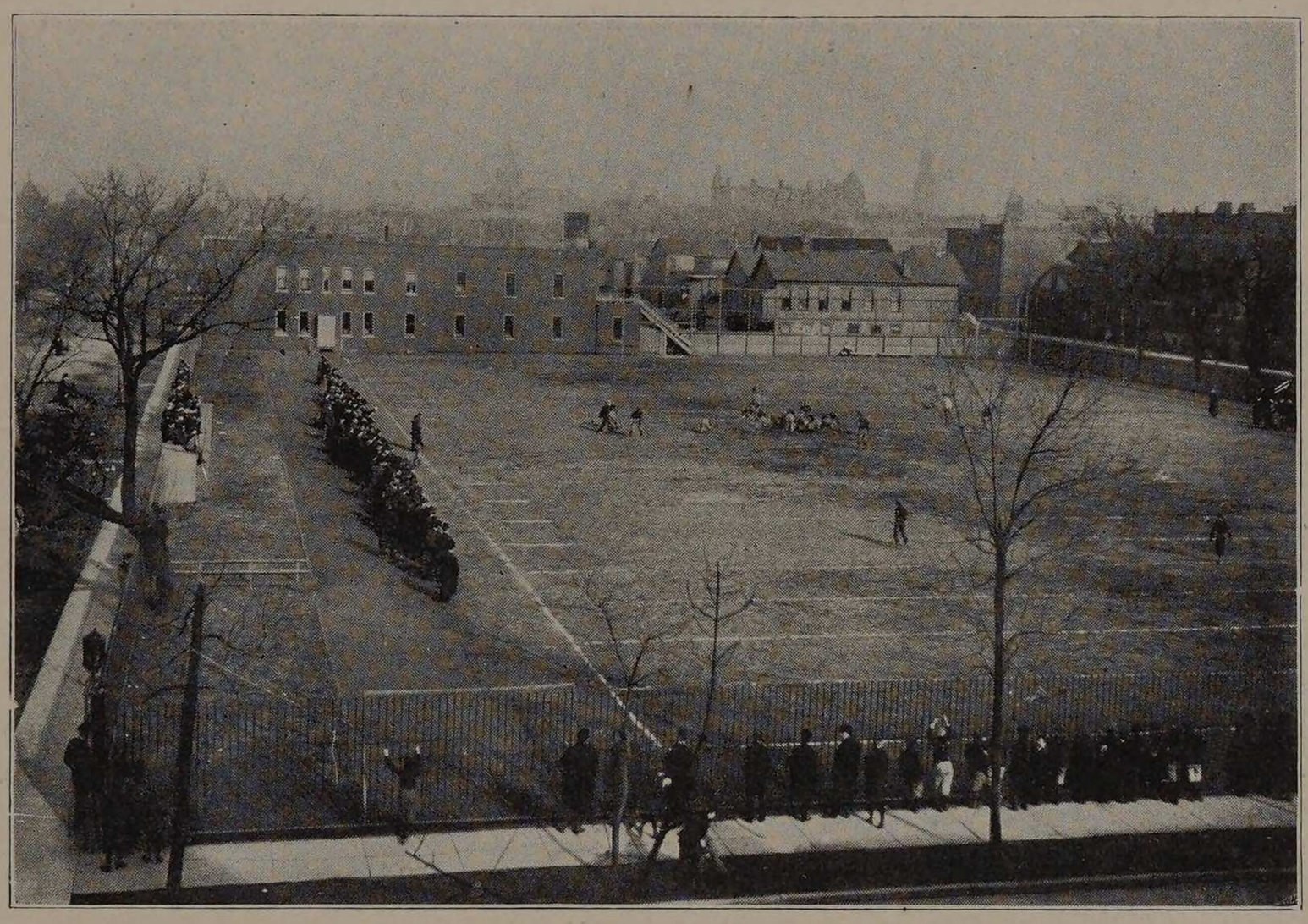


For many years there has been a feeling at Armour that Athletics were not on the right basis; something had been wrong. There was no field; there were no funds; there was no time; everybody offered an explanation. When we obtained our field and a reliable source of revenue our stumbling stones began to vanish; coaches appeared; more enthusiasm was manifested; more material came out for the teams; we had better results; we were more encouraged, but we were not satisfied; something was yet lacking. Many theories have been advanced as to what this is. One is that our management has been poor; that there has been no definite aim in our athletics, no plan which covered more than one season, no acquaintance, no standing which is necessary to obtain games with reputable teams of colleges. The student managers did their best but they were acting for the first time, with little experience, small responsibility, and no seasoned advice. This theory has been considered and a remedy has been applied by the Board of Athletic Control.

Another theory put forth to explain our failure in athletics was a lack of time. More time from studies could not be given, but less athletics might be a remedy and football was stricken from our list of sports, leaving basket ball, track, and baseball for the expression of our athletic spirit. This question was discussed last year and again this year by the Board of Athletic Control, where many reasons were put forth to convince the members that football in a technical school is not a form of athletics which would tend to become of help and interest to practically every student; that it was not our best means of giving our student enjoyable exercise, social intercourse with his fellow students, and a broadening contact with students of other schools. It was said that the sentiment in general was against the game, that we did not have funds enough to carry all the more common sports, that something must go, that football would be missed the least, etc.

Other reasons which defeated football are as follows: (First.) The fact that it is practically impossible to begin practice before five o'clock, which makes the work come after dark most of the season and the time is too short at best. (Second.) The standing of at least some of the individual players was affected last year. (Third.) This season shows that football is too expensive for us. There has been spent almost one-third of all the athletic money for this year on football alone. In any case is it just to the other interests?

With football dropped there is opportunity, time, and money to carry basket ball, track, and base ball right through the year, both indoors and outside. By limiting ourselves to these three branches more students will be interested, more candidates will be considered, and the Institute will "class" better in inter-collegiate contests.

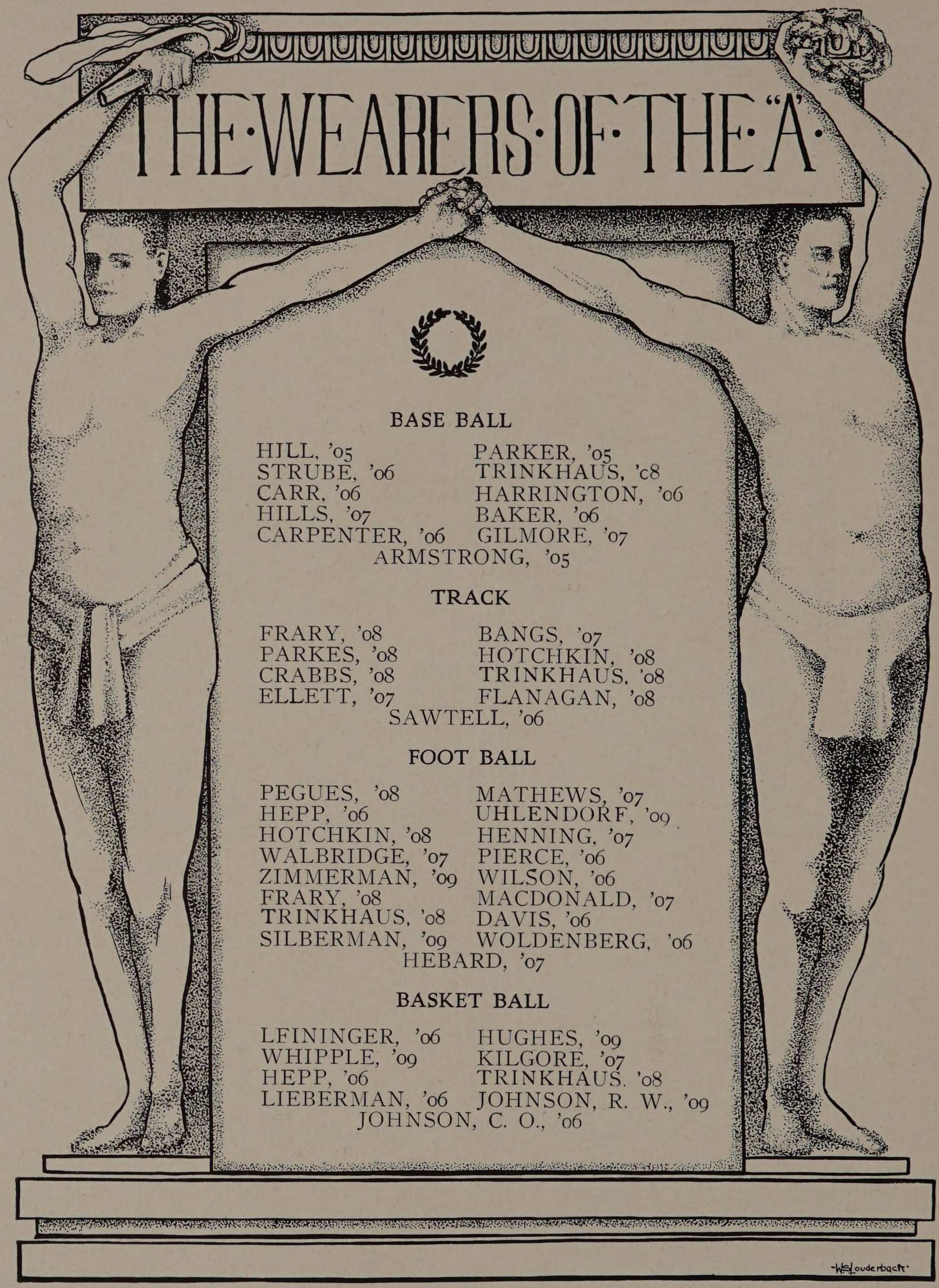


OGDEN FIELD DURING THE GAME WITH ROSE POLYTECHNIC, NOVEMBER 25, 1905

A series of inter-class contests with an occasional outside game can be arranged to use the field and keep up the interest during the fall season.

Massachusetts Institute of Technology has found that it can support only a track team. Many of the technical schools express their athletic spirit entirely in class games and have no outside contests. These ideas are good ones and as the years go by and we learn by experience more of our games may go, outside contests may some day be a thing of the past, and all of our games be fairly well characterized by the unparalleled good-natured enthusiasm which was shown at all of our recent inter-class basket ball games. Who can tell? Nevertheless, regardless of the future, our athletics to-day are on a much better footing than they have ever been before, and we are headed toward greater progress in the future.

THE·WEARERS·OF·THE·"A"



BASE BALL

HILL, '05 — PARKER, '05
STRUBE, '06 — TRINKHAUS, '08
CARR, '06 — HARRINGTON, '06
HILLS, '07 — BAKER, '06
CARPENTER, '06 — GILMORE, '07
ARMSTRONG, '05

TRACK

FRARY, '08 — BANGS, '07
PARKES, '08 — HOTCHKIN, '08
CRABBS, '08 — TRINKHAUS, '08
ELLETT, '07 — FLANAGAN, '08
SAWTELL, '06

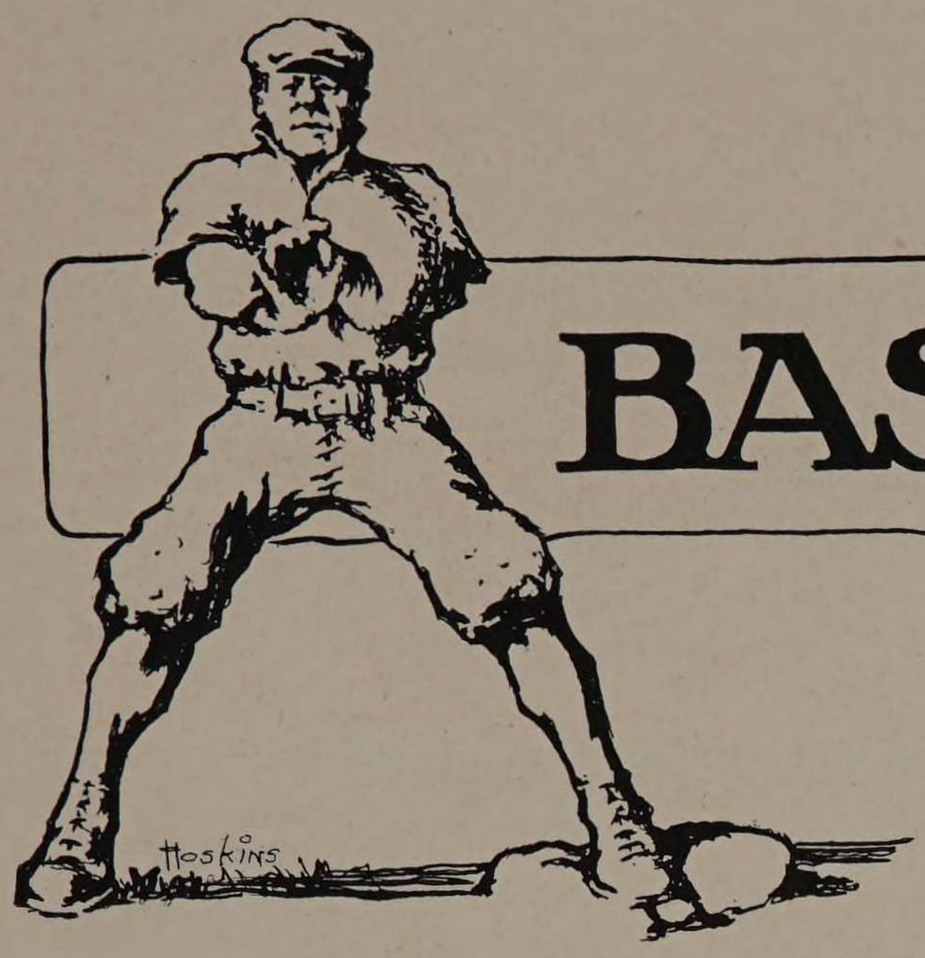
FOOT BALL

PEGUES, '08 — MATHEWS, '07
HEPP, '06 — UHLENDORF, '09
HOTCHKIN, '08 — HENNING, '07
WALBRIDGE, '07 — PIERCE, '06
ZIMMERMAN, '09 — WILSON, '06
FRARY, '08 — MACDONALD, '07
TRINKHAUS, '08 — DAVIS, '06
SILBERMAN, '09 — WOLDENBERG, '06
HEBARD, '07

BASKET BALL

LFININGER, '06 — HUGHES, '09
WHIPPLE, '09 — KILGORE, '07
HEPP, '06 — TRINKHAUS, '08
LIEBERMAN, '06 — JOHNSON, R. W., '09
JOHNSON, C. O., '06

W. S. Louderback



BASEBALL

Captain,
W. F. PARKER, '05

Manager,
J. R. ARMSTRONG, '05

Coach,
J. F. COOK

Asst. Manager,
M. WOLDENBERG, '06

THE TEAM

Members.	*Class.*	*Position.*
Geo. Carpenter	1906	Catcher
Wm. Trinkhaus	1908	Pitcher
Chas. Baker	1906	First Base
W. E. Hill	1905	Second Base
P. Harrington	1906	Shortstop
L. P. Hills	1907	Third Base
A. L. Carr	1906	Left Field
H. Strube	1906	Center Field
W. F. Parker	1905	Right Field, Pitcher
	Substitute.	
M. Gilmore	1907	Field

SCHEDULE OF GAMES PLAYED.

Date.	*Opponent.*	*Place.*	*Score.*	*Won by*
March 28	Chicago U.	Marshall Field	22-3	Chicago
March 30	Chicago U.	Marshall Field	13-8	Chicago
April 1	Chicago U.	Marshall Field	8-4	Chicago
April 8	Northwestern U.	Ravina Park	7-6	Northwestern
April 15	Fairbanks-Morse	Ogden Field	8-4	Armour
April 22	Illinois U., 2nd	Illinois Field	9-5	Illinois
April 29	Lake Forest Coll.	Lake Forest	6-5	Lake Forest
May 1	Illinois U.	Ogden Field	8-3	Illinois
May 6	Northwestern Coll.		Game Canceled	
May 13	St. Viateur's Coll.	Viateur's Field	5-4	Armour
May 20	Kenton Ath. Club	Austin Field	4-2	Kenton
May 29	Northwestern Coll.		Game Canceled	
June 1	Chicago U.	Ogden Field	9-8	Armour

With probably the hardest schedule ahead of it that any previous Armour Institute Athletic Team has had thus far, the College Baseball Team of 1905 started in to win as many games as possible. They started with a series of practice games with the University of Chicago and improved very rapidly, as is shown by the result of this series of games. No sooner had the team shown this improvement, however, than our old

COLLEGE BASEBALL TEAM,
1905



Armstrong Gilmore Strube Baker Hills Hill Cook
Carpenter Carr Trinkhaus Parker Harrington

"hoodoo" hard luck, set in and we were beaten in several close games with the University of Illinois, Northwestern University, and Lake Forest College.

The fellows kept at it, however, very manfully, and succeeded finally in shaking off the old foe. Their defeat of St. Viateur's College Baseball Team, who came to us fresh from their decisive victory over the University of Illinois the week before, gave them a bit of encouragement, while they added more to their satisfactory work by giving the University of Chicago

the hardest game of the season and finally beating them by a score of 9 to 3. Captain Parker and Coach Cook certainly worked hard for the success of the team and so did all the members. Their defeats were successes in one sense for the team deserves great credit for the way in which they kept up steady, conscientious work in spite of all their discouragements

The Freshman-Sophomore Game

'08 vs. '07

On June 6th, 1905, the Class of 1907 and the Class of 1908 tested their respective strengths on the baseball diamond at Webster Field. The Freshies could not connect with Laubach's curves, and the result was a clear-cut victory for the '07 colors.

Score:—Sophomores, 10; Freshmen, 6. The Line-up.

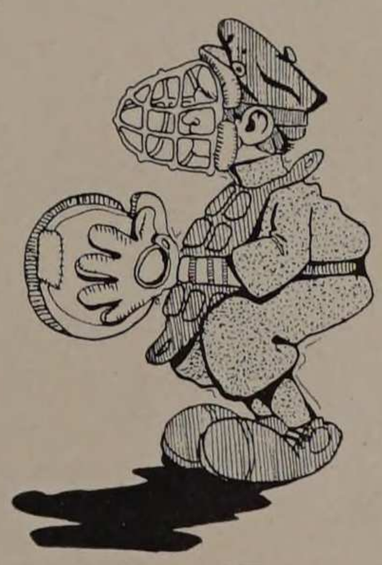
Sophomores	Position	Freshmen
Busse	First Base	Holmes
Mathews	Second Base	Thompson
Schermerhorn	Short Stop	Smith (Capt.)
Jones, E. W. (Mgr.)	Third Base	Frary
Stagg	Left Field	Eaton
Olson, Henning	Center Field	Farmer
Rech	Right Field	Odell
Sigwalt	Catcher	Monahan
Laubach (Capt.)	Pitcher	Francis



ANSEL A.

The Senior-Faculty Game

The Faculty and Seniors ('05) had a very exciting contest in baseball at Ogden Field on June 9th, 1905. The game lasted for ten innings, the Faculty finally winning by a score of 13 to 12.



CHAS. W.

Academy Baseball

Captain	*Coach*	*Manager*
W. F. Clark, '05	W. K. Smart	R. Gillies, '05

THE TEAM

Members	*Class*	*Position*
P. A. Crosby	1905	Pitcher
H. C. Smith	1905	Catcher
E. W. Cunningham	1905	First base
F. J. Urson, Jr.	1905	Second base
R. Doerr	1905	Third base, center field
W. F. Deveney	1905	Third base, center field
W. F. Clark	1905	Short stop
W. A. Howard	1905	Left field
L. L. White	1905	Right field

Substitutes

W. F. Conlin, 1905
T. S. Davies, 1908

SCHEDULE OF GAMES PLAYED

Date	*Opponents*	*Place*	*Score*	*Won by.*
April 19	Northwestern Academy	Ogden Field	15-2	A. S. A.
April 22	Morgan Park Academy	Morgan Park	10-6	A. S. A.
April 29	Elgin High School	Elgin	10-2	A. S. A.
May 1	Wendell Phillips High School	Washington Park	10-3	A. S. A.
May 3	University High School	Ogden Field	8-7	A. S. A.
May 6	Northwestern Academy	Ravinia Park	4-2	A. S. A.
May 8	Wendell Phillips High School	Ogden Field	9-7	A. S. A.
May 13	Joliet High School	Joliet	14-6	A. S. A.
May 15	Hyde Park High School	Ogden Field	2-0	A. S. A.
May 18	St. Cyril's College	Hand's Park	3-1	A. S. A.
May 20	Lake Forest Academy	Ogden Field	5-0	A. S. A.
May 27	St. Vincent's College	St. Vincent's	16-9	A. S. A.
May 30	Lake Forest Academy	Farwell Field	12-4	A. S. A.
June 2	Morgan Park Academy	Ogden Field	4-2	A. S. A.
June 10	Elgin High School	Ogden Field	3-0	A. S. A.

Under the successful coaching of Mr. W. K. Smart, the Academy turned out a baseball team for the season of 1905 whose record can be said, without exaggeration, to have eclipsed that of every other team that the Academy has had thus far. The team of 1905 went in for some good, hard, conscientious work at the very outset, and settled down into a fine standard of work which they held to till the end of the season. This was

THE ACADEMY BASEBALL TEAM,
1905



Smart Crosby Cunningham White Gillies
Conlin Howard Doerr Urson
Davies Clarke Deveney Smith

productive of its results, as the schedule on the preceding page will testify, for not only did the team win every game they played, but not once was there the slightest chance of their opponents besting them.

Crosby's pitching was the feature of nearly all of the games—it being estimated that he struck out, on an average, fourteen men each game. The work of the team as a whole, however, deserves great commendation and it is to be hoped that their example will be an incentive to hard work on the part of the team this year.



TRACK

Captain,
C. O. FRARY, '08

Manager,
H. J. SAWTELL, '06

Coach,
C. E. DVORAK

THE TEAM

Brown, H. C., '08	Quarter Mile
Bangs, L. W., '07	Shot, Discus and Hammer
Crabbs, A., '08	Half Mile and Mile
Dunbar, W., Jr., '08	100 and 200 Yard Dashes
Davis, A., Jr., '06	Quarter Mile, Hammer, Discus and Shot
Ellett, E. H., '07	High Jump and Broad Jump
Frary, C. O., '08	100 and 200 Yd. Dash, ¼ Mile and Broad Jump
Flanagan, G., '07	100 and 200 Yd. Dash and Low Hurdles
Hepp, A. A., '06	Half Mile and Mile
Hotchkin, E. W., '08	Low Hurdles and Pole Vault
Parkes, A. B., '08	High Hurdles, Half Mile and Mile
Sawtell, H. J., '06	Mile
Trinkhaus, W., Jr., '08	Pole Vault
Wanner, F. A., '06	220-Yard Dash and High Jump

SCHEDULE OF MEETS

Date	*Opponent*	*Place*	*Score*	*Won by*
April 29	Class Meet	Ogden Field		'08
May 6	Michigan Agr. College	Lansing, Mich.	38-84	M. A. C.
May 13	Lake Forest College	Lake Forest	45-59	L. F. C.
May 20	North West. College	Naperville	60-71	N. W. C.
June 3	Knox College	Ogden Field	65-52	A. I. T.

The spring of 1905 marked a new era in track athletics at Armour. At that time the students found an excellent field at their disposal and a fine coach in the person of Charles E. Dvorak, then world's champion pole-vaulter. The first event of the season was the class meet, in which the freshmen carried off the honors. The men who made the best showing in that meet were given places on the regular team. This team then took part in the meets with the various colleges on the schedule. The team did

not show up very well at the meet with Michigan Agricultural College, though this was probably due to lack of experience. They made a better showing, however, at the next two meets and won the one with Knox College on June 3. Altogether the season was very encouraging, when the fact is considered that it was the first attempt at track work. The men showed great interest and were well supported by the student body.

In the coming season greater victories are to be expected. From the present interest shown by the new material and also from increased facili-

THE COLLEGE TRACK TEAM,
1905



Dvorak Dunbar Brown Parkes Ellett Sawtell
Wanner Flanagan Frary Hotchkin Crabbs Trinkhaus

ties, we should see a winning team for 1906. Mr. Jones, a new addition to our faculty, has consented to act as coach. He has had considerable experience at coaching and was an athlete of ability in his college days. Under his guidance great things are to be expected. With the abolition of foot ball there will be more time and money for track athletics, and an in-

door team is not an impossibility in the near future. A very good schedule has been secured, containing meets with some of the best known colleges in the West that hold good records, so that the team will have a good chance to show its merits. Altogether, everything points toward a very successful season.

Records

The high records made on Ogden Field by Tech men now stand:

Event	*Name*	*Class*	*Record*
75-Yd. Hurdles	Parkes	'08	10 3-5 seconds
Discus Throw	Bangs	'07	97 feet
One-Mile Run	Crabbs	'08	4 min. 55 1-5 seconds
Hundred-Yard Dash	Frary	'08	10 2-5 seconds
Running Broad Jump	Ellett	'07	19 feet 4¼ inches
Quarter-Mile Run	Frary	'08	53 2-5 seconds
Shot-Put	Bangs	'07	35 feet 5 inches
220-Yard Low Hurdles	Hotchkin	'08	28 1-5 seconds
Running High Jump	Ellett	'07	5 feet 4 inches

The Spring Inter-Class Track Meet

The Inter-Class Track Meet for the Spring of 1905 was held on Ogden Field on Friday, April 28th. On account of rain only ten of the fourteen events scheduled were run. Points were allowed on the basis of five points for first place, three for second, and one for third. This scale left the Freshmen a high first, the Juniors a medium second, and the Sophomores a low third, while the poor Seniors trailed in fourth without a single point.

The places obtained in the various events were as follows:

100-Yard Dash—Pegues, Frary, Hotchkin, and Dunbar, all '08, were the only men qualified. All places awarded to '08 without any finals.

75-Yard High Hurdles—Parkes, '08, Levings, '06, Pegues, '08.

220-Yard Low Hurdles—Hotchkin, '08, Levings, '06, Pegues, '08.

Shot-Put—Bangs, '07, 35 feet 6 inches; Davis, '06, Baker, '06.

High Jump—Ellett, '06, Wanner, '06. tied for third; Mathews, '07, Alling, '07, Dunbar, '08.

Pole Vault—Trinkhaus, '08, 9 feet 6 inches; Hotchkin, '08, Mathews, '07.

Half-Mile—Crabbs, '08, Hepp, '06, Stanton, '07.

Mile—Parkes, '08, Crabbs, '08, Sawtell, '06.

Quarter-Mile—Frary, '08, Davis, '06, Brown, '08.

220-Yard Dash—Frary, '08, tied for second and third Singer, '07, Black, '08, Hotchkin, '08.

According to the places awarded as above, the final outcome of the meet was as follows:

First place,	Freshmen	56 Points
Second place,	Juniors	25 Points
Third place,	Sophomores	9 Points
Fourth place,	Seniors	0 Points

Academy Track

Captain and Manager,
G. C. BRISTOL, '06.

Coach,
C. E. DVORAK

Bristol, G. C., '06	50, 110, 220 and 440 Yard Dashes, Low and High Hurdles and Relay
Flanagan, G., '05	50, 110, 220 Yd. Dashes, and Low Hurdles and Relay.
Kellner, O., '06	880 Yd. Dash, High and Broad Jump, Discus and Relay.
Bettles, R. E., '06	Shot, Hammer and Discus.
Park, H., '06	Mile.
Oberfelder	110 and 220 Yd. Dashes and Relay.
Mueller, C. W., '06	Pole Vault.
Wony, A. Y., '06	Pole Vault.
Wilcox, L. B., '05	Pole Vault.
Silberman, D., '05	Shot-Put.

The Academy track team opened the season by winning a meet from Evanston High School on Ogden Field April 29, by a score of 63 to 554. Evanston won all of the track events except the 440-yard dash and the hurdles, and Armour won the weights, landing first, second, and third in all weight events. The second meet, which resulted in a tie, was held on Ogden Field May 20, with R. T. Crane High School. This meet forced the Academy boys to their best efforts, as the high school team held the lead until the Relay was run off, which Armour easily captured, Bristol finishing yards to the good of the last Crane runner. Bristol also captured the 440-yard dash from the high school's star man in 54 3-5 seconds. Bettles also did some good work, making a record throw of 92 feet 7¾ inches in the Discus. Other meets were scheduled with Hinsdale High School and Northwestern Academy, which could not be held on account of the weather.

On May 27 three of the team competed in the University of Michigan Interscholastic Meet at Ann Arbor. These men were Flanagan in the sprints, Bettles in the weights, and Bristol in the quarter-mile. The Wolver-

ine sprinters were too fast for Flanagan and he failed to qualify. Bettles lost out in the weights, losing fourth place in the shot-put by one-half of an inch. Bristol redeemed these defeats by winning the quarter mile from a field of thirty-two men in fifty-four seconds. Armour finished sixth in this meet with five points. Men were entered in the University of Chicago Inter-scholastic meet, but much to our disappointment they failed even to appear.

The prospects for next year are very bright, as all of the old men expect to return, and with their experience they should make a very formidable team.

High Records Made by A. S. A. Men on Ogden Field

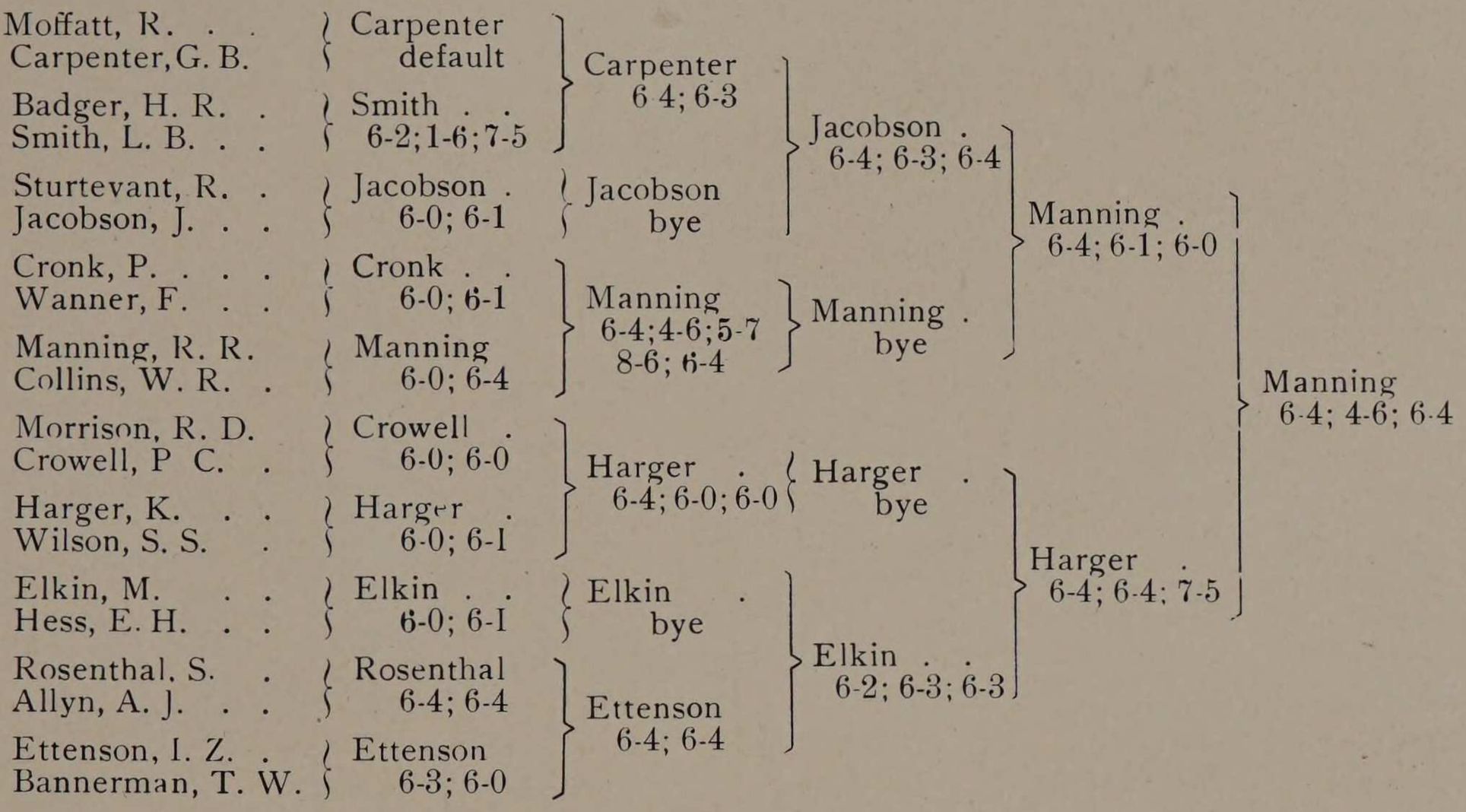
Event.	*Name.*	*Class.*	*Record.*
100 yard dash.	G. Flanagan.	'05.	:10 4-5 seconds.
220 yard dash.	G. Flanagan.	'05.	: 24 4-5 seconds.
220 yard dash.	G. C. Bristol.	'06.	: 24 4-5 seconds.
440 yard dash.	G. C. Bristol.	'06.	: 54 3-5 seconds.
880 yard dash.	O. Kellner.	'06.	2 : 16 3-5.
Mile.	H. Park.	'06.	5 : 12.
75 yard high hurdles.	G. C. Bristol.	'06.	: 12 seconds.
220 yard low hurdles.	G. Flanagan.	'05.	: 30 2-5 seconds.
Shot-put.	R. E. Bettles.	'06.	39 feet 4 inches.
Hammer throw.	R. E. Bettles.	'06.	98 feet 5 inches.
Discus.	R. E. Bettles.	'06.	92 feet 7¾ inches.
Pole vault.	A. Y. Wony.	'06.	9 feet 3 inches.
Pole vault.	C. W. Mueller.	'06.	9 feet 3 inches.
Pole vault.	L. B. Wilcox.	'05.	9 feet 3 inches.
High jump.	W. Kellner.	'05.	5 feet 3 inches.
Broad jump.	W. Kellner.	'05.	18 feet 4 inches.



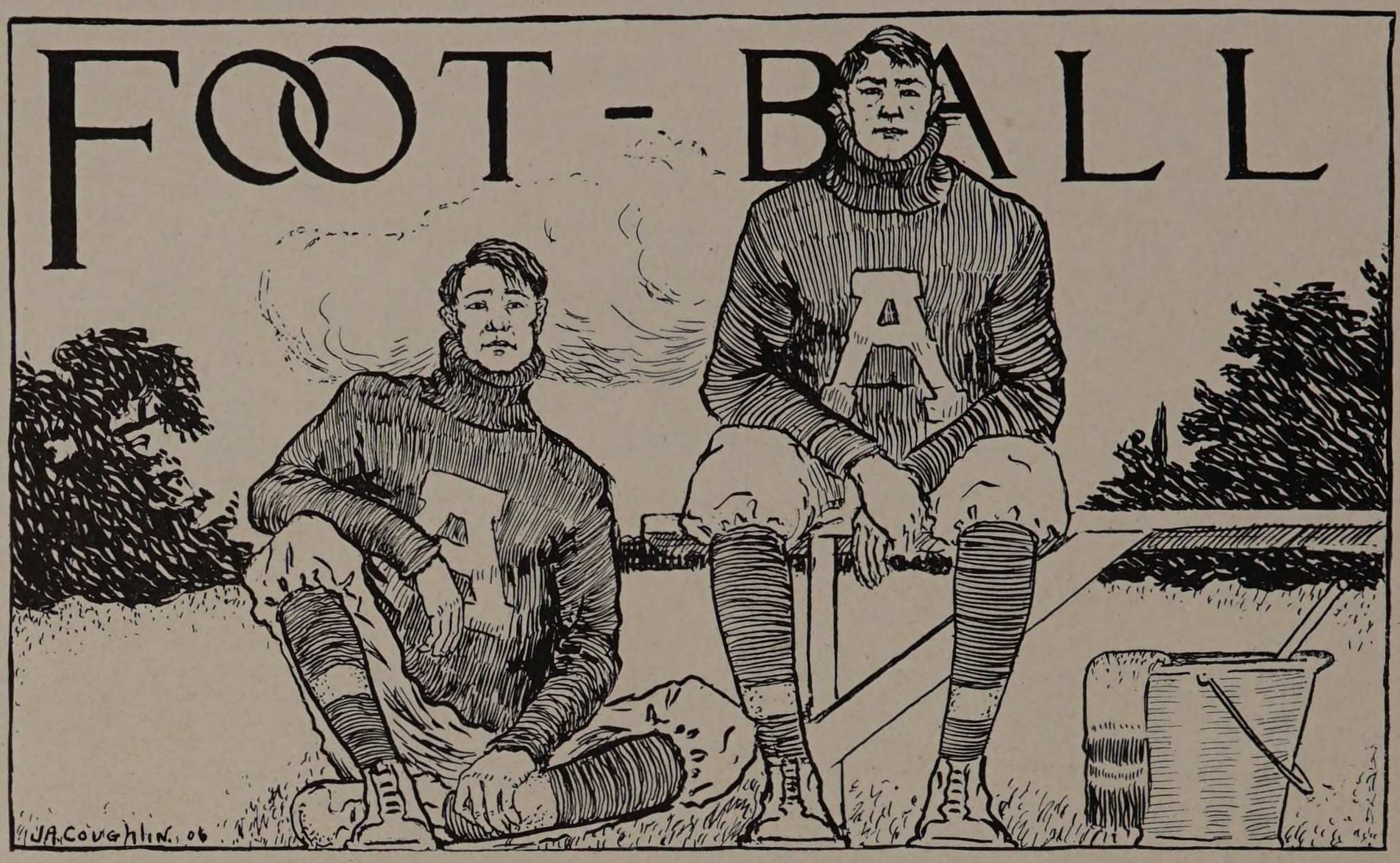
TENNIS

G.C. OSBORN

Results in Spring Tournament, 1905



The Spring Tennis Tournament of 1905 was held at Washington Park. The number of entries was large considering first, that the tournament was started rather late—May 15th, and second, that there were no good facilities for such a tournament. As to the first of these points, the entries were received between May 15th and May 22nd and the tournament was played between May 22nd and June 12th, this latter date being somewhat prolonged on account of a solid week of rain. As regards the second point—that of facilities, Armour should have some courts on Ogden Field where a tournament could be run in the Spring and again in the Fall. The space is at hand; why not give part of it to Tennis? The game is one that both students and faculty take a great interest in and it is one of the few branches of Athletics in which Armour can meet other colleges on practically equal footing. We should be entered, each year, in the Western Inter-Collegiate Tennis Tournament, and we could make a good showing in this,—if we only had some courts at the Institute. This entry was not made last year because the Athletic Board would not meet the required entrance fee of $5.00.



Captain,
H. A. PEGUES, '08
Manager,
M. WOLDENBERG, '06
Coach,
J. F. COOK

Members	*Positions*
Hepp, Wilson, '06	Right End
Pierce, Woldenberg, '06	Right Tackle
Henning, '07, Zimmerman, '09	Right Guard
Uhlendorf, '09	Center
MacDonald, '07	Left Guard
Davis, '06	Left Tackle
Silberman, '09, Hebard, '07	Left End
Frary, '08, Walbridge, '07	Left Half Back
Pegues, '08, Woldenberg, '06	Full Back
Trinkhaus, '08	Right Half Back
Mathews, '07	Quarter Back

Schedule of Games Played

Date	*Opponent*	*Place*	*Score*	*Won by*
Sept. 23	R. T. Crane M. T. S.	Ogden Field	16-0	A. I. T.
Sept. 30	Northwestern U. Freshmen	Game Canceled		
Oct. 7	Illinois Freshmen	Illinois Field	11-4	Illinois
Oct. 14	Lake Forest College	College Field	6-0	Lake Forest
Oct. 21	Northwestern College	Athletic Field	12-6	A. I. T.
Oct. 28	Michigan Agriculture	College Field	18-0	M. A. C.
Nov. 4	Chicago U., 2nd	Marshall Field	17-0	Chicago U.
Nov. 11	St. Viateur's College	Ogden Field	12-6	A. I. T.
Nov. 18	Purdue University	Game Canceled		
Nov. 25	Rose Polytechnic	Ogden Field	6-0	Rose Polytechnic
Nov. 30	Culver Military Academy	Culver Field	0-0	Tie.

The College Football Team for the season of 1905 took upon itself a task which has not been attempted for some time at Armour. It made out a schedule of College Games exclusively and left out a number of the smaller games with which our former schedules have been filled. Trips were taken to Champaign, Lake Forest, Naperville, Lansing and Culver, the fellows showing up well wherever they played and putting up a pretty stubborn game.

THE COLLEGE FOOTBALL TEAM.
1905



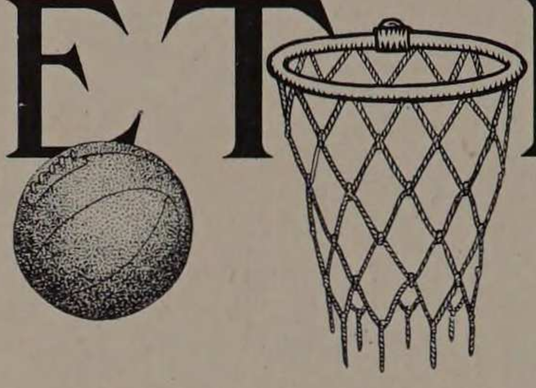
Wilson Olson Pierce Walbridge Zimmerman MacDonald Mathews Edwards
Henning Davis Hotchkin Pegues Silberman Frary Hepp
Woldenberg Trinkhaus Uhlendorf

In spite of the fact that the team was greatly handicapped by lack of enough material and by accidents to members of the team which forced them to discontinue playing for short lengths of time, they were able to take revenge on Northwestern College for the defeat they gave us the year before. The closing game of the season with Culver, which resulted in a tie, was very well played and showed the results of some good steady work on the part of the Armour Team.

The Freshman-Sophomore Game

On November 3rd, 1905, the Class of 1909 defeated the Class of 1908 in the annual Freshman–Sophomore Football Game. The Freshmen had the best of the argument from the very start and finally won by a score of 23 to 0.

BASKET BALL



G. C. OSBORN

Captain
W. G. LEININGER, '06

Manager
C. O. JOHNSON, '06

Coach
R. E. RILEY

THE TEAM

LEININGER, W. G., '06	Right Forward
HUGHES, F. J., '09	Left Forward
JOHNSON, R. W., '09	Center and Forward
WHIPPLE, V. H., '09	Center and Forward
LIEBERMANN, E., '06	Right Guard
KILGORE, C. E., '07	Left Guard

The Substitutes

TRINKHAUS, W., Jr., '08	Guard
HEPP, A. A., '06	Forward

SCHEDULE OF GAMES

Date	*Opponent*	*Place.*	*Score*	*Won by*
Nov. 24	West Y. M. C. A.	West Y. M. C. A.	36-13	W. Y. M. C. A.
Dec. 2	Wheaton	Wheaton	36-11	Wheaton
Dec. 8	Central Y. M. C. A.	Armour	50-29	C. Y. M. C. A.
Jan. 11	Chilocco Indians	Armour	40-29	Armour
Jan. 14	Elgin Y. M. C. A.	Elgin	33-22	Elgin
Jan. 19	U. of Wisconsin	Armour	37-15	U. of W.
Jan. 20	Port Washington	Port Washington	74-47	P. W.
Jan. 27	Northwestern College	Naperville	28-23	N. C.
Feb. 2	Elgin Y. M. C. A.	Armour	41-24	A. I. T.
Feb. 10	Culver M. A.	Culver	29-19	A. I. T.
Feb. 15	U. of Kansas	Armour	34-25	U. of K.
Feb. 17	Lake Forest	Lake Forest	26-20	Lake Forest
Feb. 21	Lewis Institute	Armour	28-14	Lewis
Feb. 23	Evanston Y. M. C. A.	Evanston	50-13	E. Y. M. C. A.
Feb. 28	Lake Forest	Armour	31-18	A. I. T.
Mar. 2	Evanston Y. M. C. A.	Armour	28-22	A. I. T.
Mar. 7	Lewis Institute	Lewis	45-15	Lewis

The basket ball season of 1905-1906 was not as successful as we had hoped for. But this may be partially explained by the high class teams that were played and the heavy schedule that was carried. As it was, a fair percentage of games was won, and, what is more important, the Freshmen were so well developed that they will form an excellent nucleus for next year's team, which, with the proper coaching, should develop into one of first-class caliber.

Of the freshmen that appeared, Hughes, Johnson, and Whipple showed up the best and played excellent ball during the entire time that they were in the game. Both Hughes and Johnson were disabled in the middle of the season but Hughes was back in the game later on. Whipple played

THE COLLEGE BASKET BALL TEAM,
1905-06



Whipple Johnson
C. O. Johnson Leininger Riley
Hughes Trinkhaus Liebermann Hepp Kilgore

a good game at center during the latter part of the season, taking Johnson's place. Davies played in only a few of the games as he also was laid up with injuries. The old men, Liebermann and Kilgore played a steady game at guard and held their own with all of their opponents. Captain Leininger was not in form at the beginning of the season but later on developed into a star. His specialty was free throws and baskets from

difficult angles and positions. Trinkhaus and Hepp were not given much chance to show their worth until the last few games, when they played first-class basket ball.

The team gave several proofs that some of their games were not lost through poor playing, when they defeated by an overwhelming score, in a return game, teams that had won from them. Instances of this are the games that were played with Elgin, Lake Forest, and also Evanston, which was one of the best teams in the city.

Although the past season has not been all that could have been hoped for, a winning team next year is certain.

Academy Basket Ball

Captain	*Manager*	*Coach*
G. C. BRISTOL, '06	T. S. DAVIES, '06	R. RILEY

THE TEAM

G. C. BRISTOL, '06	Left Forward
W. BRUCE, '06	Right Forward
P. P. BRINKMAN, '07	Center
E. VYNNE, '06	Center
O. S. BURKE, '06	Right Guard
H. MOYSES, '07	Left Guard
T. S. DAVIES, '07	Left Guard

SCHEDULE OF GAMES

Date	*Opponent*	*Place*	*Score*	*Won by*
Oct. 27	Wendell Phillips H. S.	Armour	31-13	Armour
Nov. 3	South Chicago H. S.	South Chicago	39-20	S. C. H. S.
Nov. 10	Calumet H. S.	Armour	38-14	Armour
Nov. 15	Wendell Phillips H. S.	Wendell Phillips	25-23	Armour
Nov. 17	South Chicago H. S.	Armour	23-20	Armour
Nov. 22	Englewood H. S.	Armour	40-14	Armour
Nov. 24	Lake H. S.	Armour	52-14	Armour
Nov. 29	Hyde Park Independents	Armour	58-9	Armour
Dec. 8	C. Y. M. C. A. Midgets	Armour	38-24	Midgets
Dec. 15	University H. S.	Armour	64-14	Armour
Jan. 20	Culver Military Acad.	Culver	30-9	Culver
Jan. 24	Lewis Institute (Juniors)	Armour	34-22	Lewis
Jan. 26	Morgan Park Acad.	Morgan Park	36-12	Morgan Park
Jan. 31	Northwestern Acad.	Armour	21-9	Armour
Feb. 2	Waukegan H. S.	Waukegan	51-13	Waukegan
Feb. 9	Wendell Phillips H. S.	Wendell Phillips	24-19	W. P. H. S.
Feb. 16	Morgan Park Acad.	Armour	38-28	Armour
Feb. 22	Northwestern Acad.	Evanston	Default	Armour
Mar. 2	Waukegan H. S.	Armour	21-20	Armour

The Academy basket ball season of 1905-06 was ended March 3 when the team defeated that of the Waukegan High School. This game made a total of twelve victories out of a possible nineteen, which, as they played the best preparatory schools in the vicinity, is a very creditable showing. Bristol served his second season as captain and proved a very efficient and capable leader and was always with the ball in all of the games. The loss of Gillies, the star center and basket-thrower, at Christmas, was

THE ACADEMY BASKET BALL TEAM.
1905



Brinkman Moyses Bruce Riley Bristol Burke Davies Vynne

much felt in the remaining games. Aware of the fact that hard work would be necessary in order to win the remaining games, the various players settled down and developed into excellent form. Burke and Bruce, the "Twins from the Emerald Isle," became crack men in their positions, Vynne and Brinkman, at center, after Christmas, played consistent ball, and Moyses and Davies at left guard made plenty of trouble for their opponents. Most of the games that were lost were played in strange gymnasiums, where the team was placed at a disadvantage, but as it is they made a very good showing. Since all of the men expect to return next year, the Academy has hopes of a greatly improved team which should be of championship caliber.



BOWLING

G C OSBORN

The College Tournament

Manager.
E. H. Ellett, Jr.
Class Managers.

1906.	1907.	1908.	1909.
H. L. Strube.	E. H. Ellett, Jr.	G. G. Buhmann.	E. L. Beifeld.

THE TEAMS

1906.	1907.	1908.	1909.
M. Woldenberg.	C. S. Henning, Jr.	H. F. Doyle.	H. E. Moyses.
W. G. Leininger.	A. Hayden, Jr.	A. J. Ebner.	O. R. Newman.
A. L. Carr.	L. H. Badger.	F. J. Urson, Jr.	E. B. Crane.
P. Harrington.	L. B. Smith.	W. Trinkhaus.	D. D. Dicks.
H. L. Strube.	E. H. Ellett, Jr.	J. S. Townsend.	C. R. Riker.
	F. L. Burkholder.	G. G. Buhmann.	E. L. Beifeld.
	J. F. Mathews, Jr.		

For the second time since the annual bowling tournaments have been held, a Freshman team has won first place. This year the class of '09 made a runaway match of it, never having been headed, and finished with the good record of only three games lost to fifteen won, giving them a percentage of 83 1-3. Their success was due in a great measure to the fine bowling of Riker and Crane, although neither approached the mark set by Jimmy Peebles in 1904. The bowling in general also suffers in comparison with other years, the average being about thirty pins to the game. This is probably due to the fact that not over half a dozen men who made good in former tournaments were on the teams this year.

The tournament was over a month late in getting started, due partly to the difficulty of deciding upon alleys which suited both faculty and students.

Again we were banished to a "dry" district, Levy's Alleys, where '06 as Freshmen won a silver championship cup, being chosen. The bowling began Saturday afternoon, March 3, and a series of three games was rolled every Wednesday night and Saturday afternoon thereafter until the close, on Wednesday, March 21. The first series resulted in the Sophomores taking two games from the Seniors, and the Freshmen two from the Juniors. The last team named was never in it, as the only time that they won a series was on the last night of the tournament. The winning of this series, however, goes to show that they were not quitters by any means. Not a man on the team had rolled for the class in previous tournaments, but they at last held the high team score until two-thirds of the tournament had been completed.

In a special match game immediately after the last contests, the Sophomores beat the Seniors by four pins, breaking the tie between the two teams, and placing '08 in second place in the final standing.

The way the tournament was conducted showed that several changes in the mode of running it should be made. At the close of every tournament general school manager for the coming year should be elected. He might have the following powers: to be chairman of a board of class managers, and executive of the board in the matter of arranging for having the classes elect their managers in the fall term, securing suitable alleys, prizes, etc., and in arranging a suitable schedule. He might also be empowered to start two-man and individual handicap tournaments, and to arrange with neighboring schools of our class for inter-college matches, as there have always been enough good bowlers among the students to form a team.

At the last tournament the "rooter" unfortunately was an unknown quantity, not more than six of this species being present to lend vocal aid to the different teams, but the contestants did their little best, especially during the last series, and better acquaintance and fellowship have certainly resulted.

Results of the Bowling Tournament

Team	'09	'08	'06	'07	Games Won
'09	. .	6	4	5	15
'08	0	. .	3	5	8
'06	2	3	. .	3	8
'07	1	1	3	. .	5
Games Lost	3	10	10	13	36

Team	Won	Lost	%	High	Low	Average
'09	15	3	.833	899	674	$768\frac{14}{18}$
'08	10	8	.556	831	644	$728\frac{9}{18}$
'06	10	8	.556	809	627	$714\frac{5}{18}$
'07	5	13	.278	826	617	$688\frac{9}{18}$

Individual Averages

NAME	Games	High	Low	High Series	Average
C. R. Riker, '09 . . .	18	215	125	$193\frac{0}{3}$	$174\frac{7}{18}$
E. B. Crane, '09 . . .	18	215	123	$177\frac{2}{3}$	$167\frac{15}{18}$
E. H. Ellett, '07 . . .	18	210	139	$179\frac{0}{3}$	$164\frac{5}{18}$
F. J. Urson, '08 . . .	17	218	125	$198\frac{2}{3}$	$158\frac{0}{17}$
W. Trinkhaus, '08 . .	18	216	119	$181\frac{1}{3}$	$155\frac{13}{18}$
H. L. Strube, '06 . .	18	178	120	$164\frac{2}{3}$	$155\frac{11}{18}$
O. R. Newman, '09 . .	18	210	118	$171\frac{0}{3}$	$155\frac{0}{18}$

"200" Scores

F. J. Urson, '08 . . .	218-214	W. Trinkhaus, '08 . . .	216
C. R. Riker, '09 . . .	215-214-214	E. B. Crane, '09 . . .	215-205-201
D. D. Dick, '09 . . .	211	J. S. Townsend, '08 . . .	210
O. R. Newman, '09 . . .	210	W. G. Leininger, '06 . . .	206
E. H. Ellett, '07 . . .	200		



SOCIETY



Radical X Dance

The annual dance given by the Radical X Society was held on the evening of April 7th, 1905, at the Waupanseh Club on Drexel boulevard. The dance was an invitation affair, one hundred and twenty-five tickets being issued, and as all were sold a good crowd attended. All of the Radic Alumni who were in the city were present, while the committee received many expressions of regret from those out of town. The music, furnished by Goldsmith, who was himself there, was of the very best and the frappe with cherries was excellent. Altogether the whole affair enhanced the fame of the Radics as entertainers.

Sophomore Dance

The Class of 1907 gave its Sophomore Informal at the Colonial Club on the evening of April 28th, 1905. The weather was somewhat unpromising on the afternoon of the day set, but towards evening it became perfectly clear and the affair was attended by one hundred and thirty couples. The programs, made up in black and gold, were furnished by "The Fulcrum," the staff of which was then composed of '07 men. Ballou furnished some very good music and all present were of one mind, namely, that an '07 dance was a thing *not* to be missed.

Senior Informal

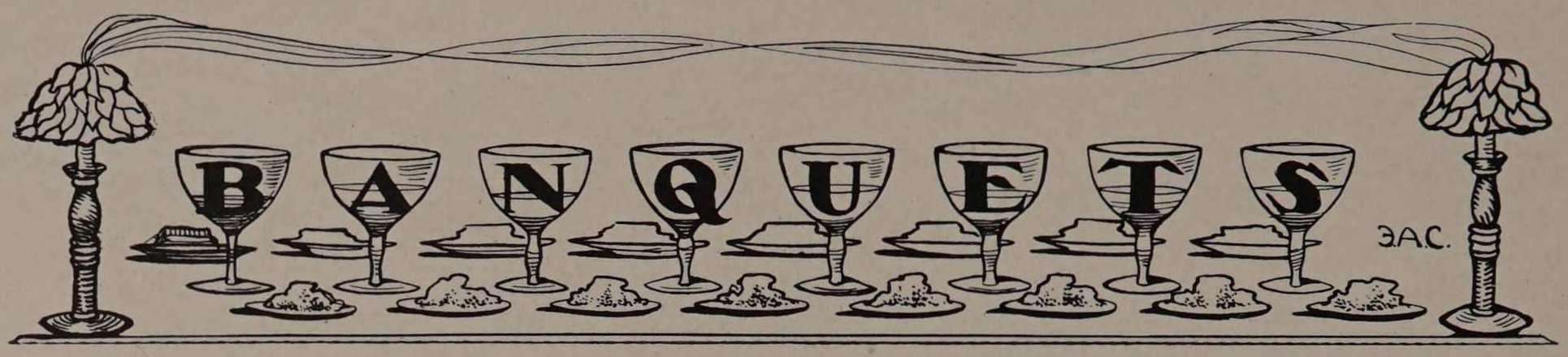
The first Armour dance of the past season was the Informal given by the Seniors and was held on Saturday evening, December 9th, 1905. It was held at the Englewood Masonic Temple and though rather out of the way for some, was nevertheless well attended. Ballou officiated at the piano with a strong orchestra backing him. Socially, the affair was a success in every detail.

Junior Informal

On the evening of February 2d, 1906, the Class of 1907 gave its third annual dance, again securing the Colonial Club. Altogether there were some one hundred and twenty-five couples present. The affair was honored by the presence both of Dean and Mrs. Raymond and Mr. and Mrs. F. U. Smith, this being the first Armour dance they had attended in a number of years. A liberal sprinkling of graduates was also noticed, these being mostly 1905 men. Ballou once more furnished the music and again the scarlet and blue completed a successful social gathering.

Freshman Dance

The first social endeavor of the Class of 1909 was an Informal Dance given at the Colonial Club on the evening of March 2d, 1906. About one hundred and twenty couples attended, the classes being about equally represented. The twenty dances of the program were danced to some very good music furnished by Lawrence's Orchestra. The Freshmen did themselves proud and their first dance was in every way a success.



The President's Breakfast

At noon on June 13th, 1905, the Tuesday of Commencement Week, Dr. Gunsaulus entertained the members of the graduating class and their lady friends at the "President's Breakfast." Deans Raymond and Monin, Mrs. Beveridge, and a few invited guests were also present. The "breakfast" was held in the banquet rooms of the Union League Club, there being places for about one hundred and twenty-five. Dr. Gunsaulus made a short speech in which he told those present that they were attending the last "President's Breakfast." To put it as did a prominent '05 man, "all enjoyed themselves internally as well as externally."

Spring Banquet of the Alumni

On Tuesday evening, June 13th, 1905, the semi-annual banquet and business meeting of the Alumni was held. On this occasion the members of the Class of 1905—then just graduating—were introduced to the association and enrolled as members. Much good spirit was shown and the excellent menu served was enjoyed by all.

The Radic Banquets

On the evening of November 17th, 1905, the Radics held their reunion banquet at "The Union." A large number of the old men were present and things went off well indeed. The next feed the Radics indulged in as a body was the "Pig Dinner" given by Ted Ellett at his home. Quite a number of the fellows attended and all had a good time. Finally on February 23d, 1906, the second

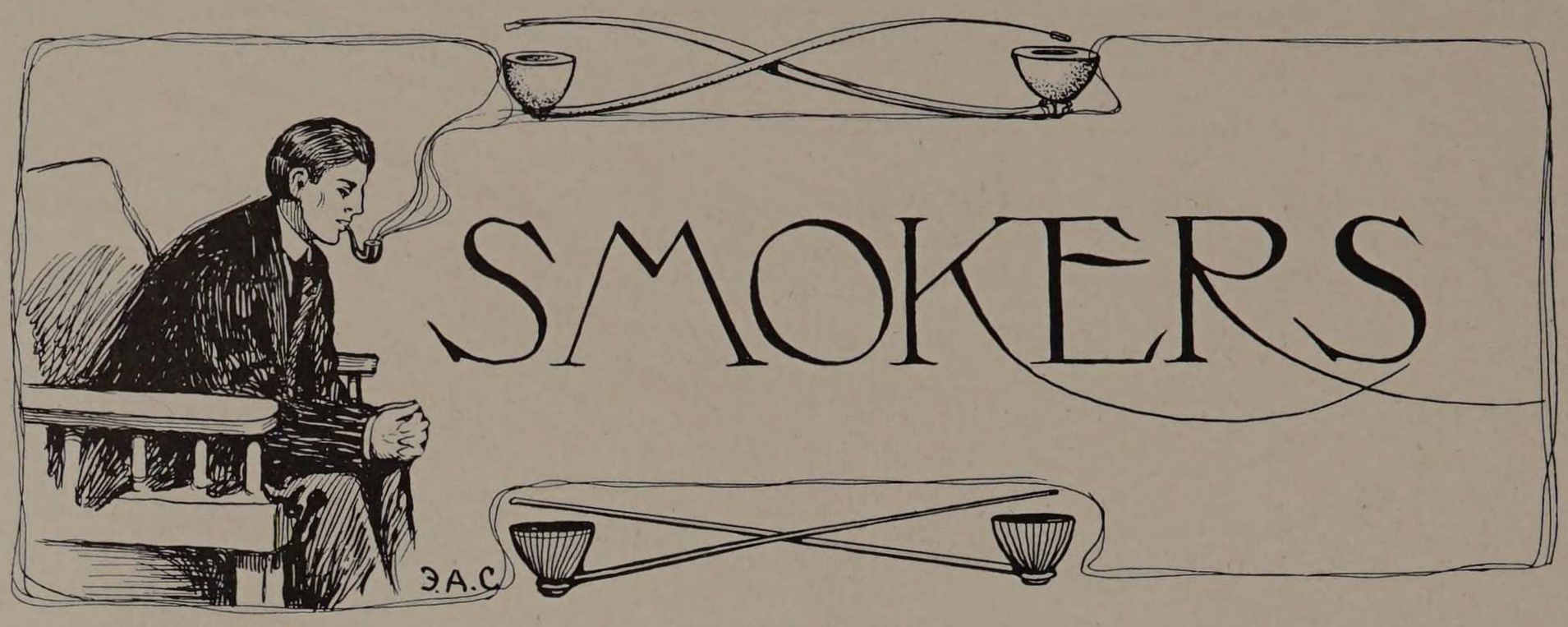
banquet of the year was held, this also at "The Union." About fifty men, more than half of whom were Alumni members, attended. "Bem" Pierce presided over the scene of jollity and mirth. The Freshmen were very much delighted over their reception and pronounced the affair a success in every way.

Winter Banquet of the Alumni

The mid-winter banquet of the Alumni was held at Vogelsang's on Saturday evening, December 23d, 1905. There were about two hundred present, among these being Dr. Alderson and Professors Phillips and Wilcox. There was much enthusiasm shown, especially when President Gunsaulus, in an after dinner speech, announced that after March 1st, 1906, many of the relations existing between the Institute and the American School of Correspondence would be dissolved. The old "'05 Trio" gave some good musical numbers and the regular business meeting then brought the evening to a close.

The Atelier Banquet

The first annual banquet of "The Atelier," the local organization of the students in Architecture, was held at the Café Roma Friday evening, March 9th, 1906. Mr. E. F. Gillette officiated as Toastmaster and introduced as the speakers of the evening Professor Shattuck, Professor Von Holst, and Mr. Ralph Holmes, the Registrar of the Art Institute. The program of the evening was closed by several stories, Messrs. Tallmadge, Layer and Cook demonstrating their ability as raconteurs.



Fifth Annual Freshman Smoker

The three upper classes entertained the Freshman Class of 1909 at the Fifth Annual Freshman Smoker on November 10th, 1905. As for some years past, the Smoker was held at the South Side Turner Hall. The attendance was unusually large and the fellows were all enthusiasm—both of which together produced the most successful smoker yet held. The program given was most interesting throughout, and was arranged by L. A. Paradis.

At 8:30 p. m., after a goodly cloud of tobacco smoke filled the hall, the orchestra, with Sydney James conducting, rendered two very excellent numbers. Following this the King of the "Ancient Order of Peruvian Fifuses" made his grand entree, surrounded by his Court. After taking up his place opposite the stage he gave the signal for the program to be continued. Dean Raymond then took the stage and, after making a few introductory remarks, told some very good stories. Dr. Colledge and Professor Leigh followed and both of them told some good ones also.

Then a vaudeville sketch entitled "The Cadets" was produced by Collins and Gooken. This was very laughable, and a few original songs on the Correspondence School, which they sang, elicited hearty applause from everyone there. About this time Dr. Gunsaulus arrived at the hall, and, taking the stage, he spoke briefly, closing his remarks with an excellent story. With the Dr. were Messrs. Bertram Weber and Daniel Protheroe of Central Church, who gave a treat to those present in the shape of some excellent music. Finally our old reliable

Professor Coffeen mounted the platform carrying his "joke book," a rather stupendous affair. His offerings in the story line were very good and added much to his reputation as a humorist. Following this came some vocal numbers by an octette and then the program was concluded by another number from the Orchestra.



KING AND COURT

King "Technilogi Instu" of the "Ancient Order of Peruvian Fifuses" and his retinue then left the hall. "Artie" Geist played the part of the king, Regdab was his High Chancellor, while E. W. Jones, L. B. Jones, Stagg and Henning were the principal retainers.

The Freshman Handshake

On the evening of Friday, September 22d, 1905, the annual Freshman Handshake took place. It was held in the Refectory under the auspices of the Armour Branch of the Y. M. C. A. Dean Monin gave some excellent advice under the subject of "The Higher Reverence." Dr. Colledge then gave a very interesting talk on the growth and development of the Y. M. C. A. There were also several musical numbers, among them being a piano solo by Dr. Scherger, two violin solos by Sydney James, and several numbers by an instrumental quartette. The very pleasant evening was topped off with some light refreshments.

ASSEMBLIES

April 11, 1905—

President Andrew Raymond of Union College, Schenectady, N. Y., on "The Increasing Interest in Education in This Country."

April 14, 1905—

Miss Kate W. McCluskey—A reading of "A Misunderstood Boy," and a recitation from "The Diary of Adam Moss, Naturalist and Kentucky Gentleman."

Mr. Rorer of the General Electric Co.—"Illustrated Talk on the Schenectady Works and Management of the General Electric Co." (to Juniors and Seniors only).

May 9, 1905—

Dean Monin—Address on "Friedrich Schiller."

May 29, 1905—

Mr. Paul Kamerer, Civil War Veteran—"Reveille to Taps."

September 20, 1905—

Dr. Gunsaulus—Opening Address of Year.

November 24, 1905—

Rev. Poon Chew, Editor of the "Chung Sai Yat Po," San Francisco, Cal.—"The Future of the Chinese in America" and "The Chinese Exclusion Law."

Mr. H. H. Gross of the American Locomotive Equipment Co.—"Elements of Success" (to Juniors and Seniors only).

December 8, 1905—

Dr. Gunsaulus—"Savonarola."

January 17, 1906—

Mr. Arthur Rice, Editor of "The Engineer"—"Super-heated Steam" (to Juniors and Seniors only).

January 24, 1906—

Rev. Lyman Abbott, Editor of "The Outlook"—"Moral Conditions Necessary for Success."

February 1, 1906—

Mr. Daniel Protheroe, Composer and Baritone—Song recital, accompanied by Mr. Bertram Weber, pianist and organist.

February 12, 1906—

Dr. Gunsaulus—"Abraham Lincoln." War songs by Mr. Hodge.



GRADUATION WEEK



F.A.CROCKER

Class of 1905

Tuesday, June 13, 1905—

Noon—Union League Club.
"President's Breakfast" to Graduating Class.
Evening—"The Union."
Alumni Semi-annual Banquet and Business Meeting.
1905 Men Enrolled in Alumni Association.

Wednesday, June 14, 1905—

Senior Trip Across the Lake. Six-For-a-Quarter Club Organized.

Thursday, June 15, 1905—

Evening—Armour Chapel.
Ninth Annual Commencement of the College of Engineering.

Program of Exercises

Organ ..... *Selected*

MR. BERTRAM SMITH WEBER

Quartette ..... *Selected*

MRS. ANNA B. NORTHROP — MRS. EMMA B. HODGE
MR. CALVIN S. COX — MR. GEORGE H. IOTT

Quartette ..... *Selected*

The Annual College Address

Charles Sumner Howe, Ph. D., President Case School of Applied Sciences, Cleveland, Ohio.

Quartette ..... *Selected*

Conferring of Degrees

Benediction

Recessional

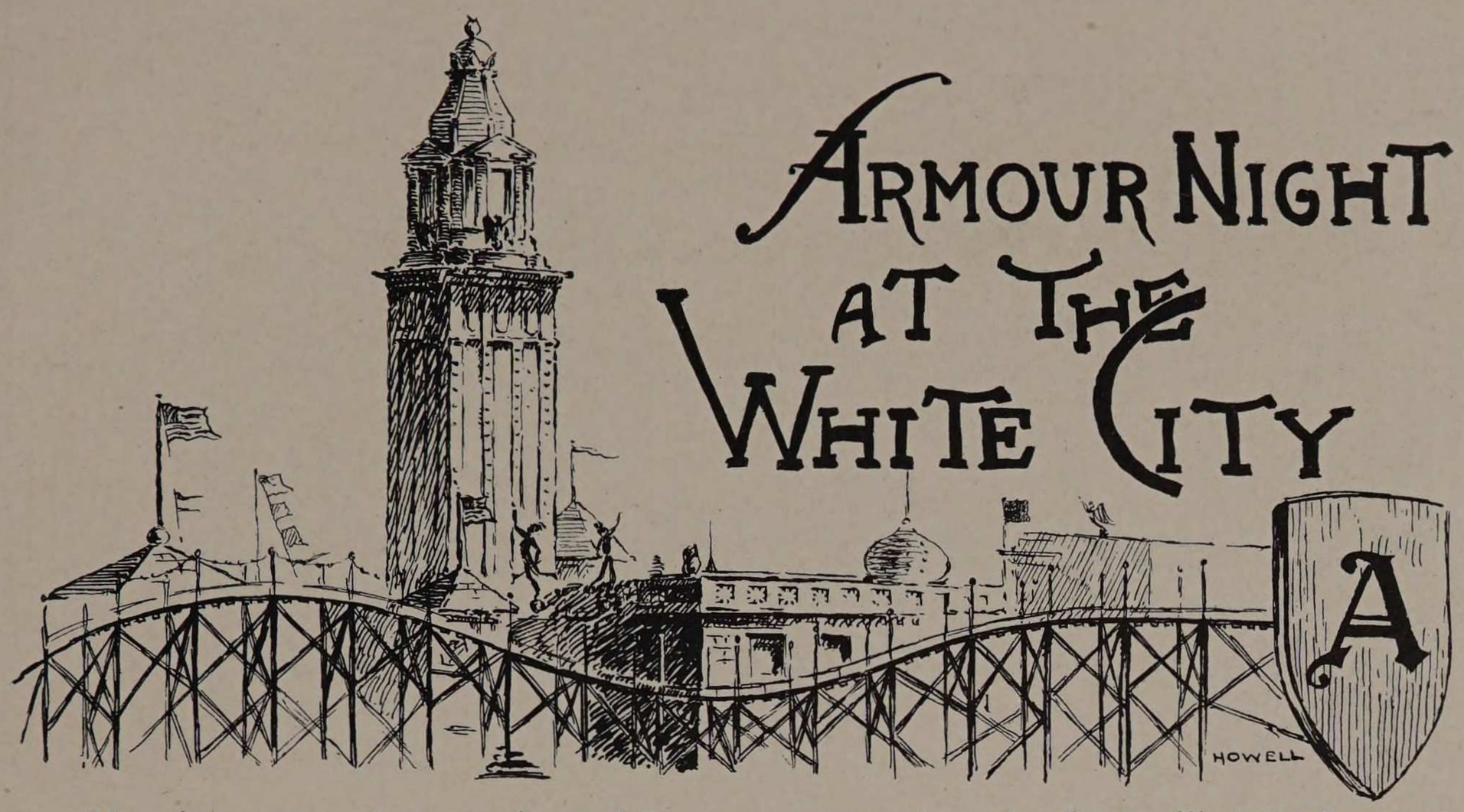
SUMMER SCHOOLS

The courses offered at the Institute during the Summer Session are six weeks in length. They allow students who are back in some subjects to make up the same and afford an excellent opportunity for teachers or special students to extend their knowledge along certain lines. Instruction is offered in all of the courses during this summer session, though a course may be withdrawn if the number of applications for it are not sufficient to make it profitable.

During the past college year the Summer Courses began on June 26th, 1905, and closed on August 4th, 1905. There were two hundred and six students in attendance during this time. Of these two hundred and six, four were from three Foreign Countries and two hundred and one were from twenty-two States of the United States. Of this last number one hundred and forty-eight were from the State of Illinois, while one hundred and thirty-one of that number were from Chicago.

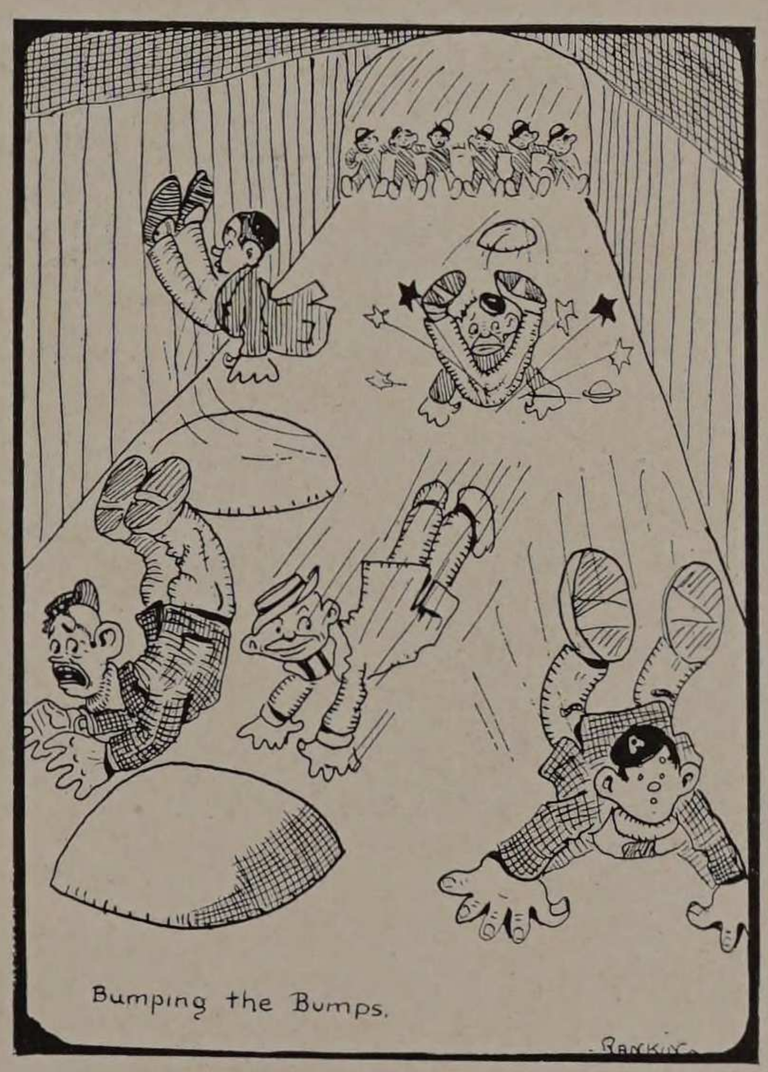
An important addition to the summer school work was made last summer when a surveying camp was established near Saugatuck, Michigan. This is, henceforth, to be a required part of the curriculum of the Sophomore year in the Civil Engineering Department, the field work lasting six weeks. Such a concentration of efforts on this subject during this part of the summer vacation cannot but have beneficial results.

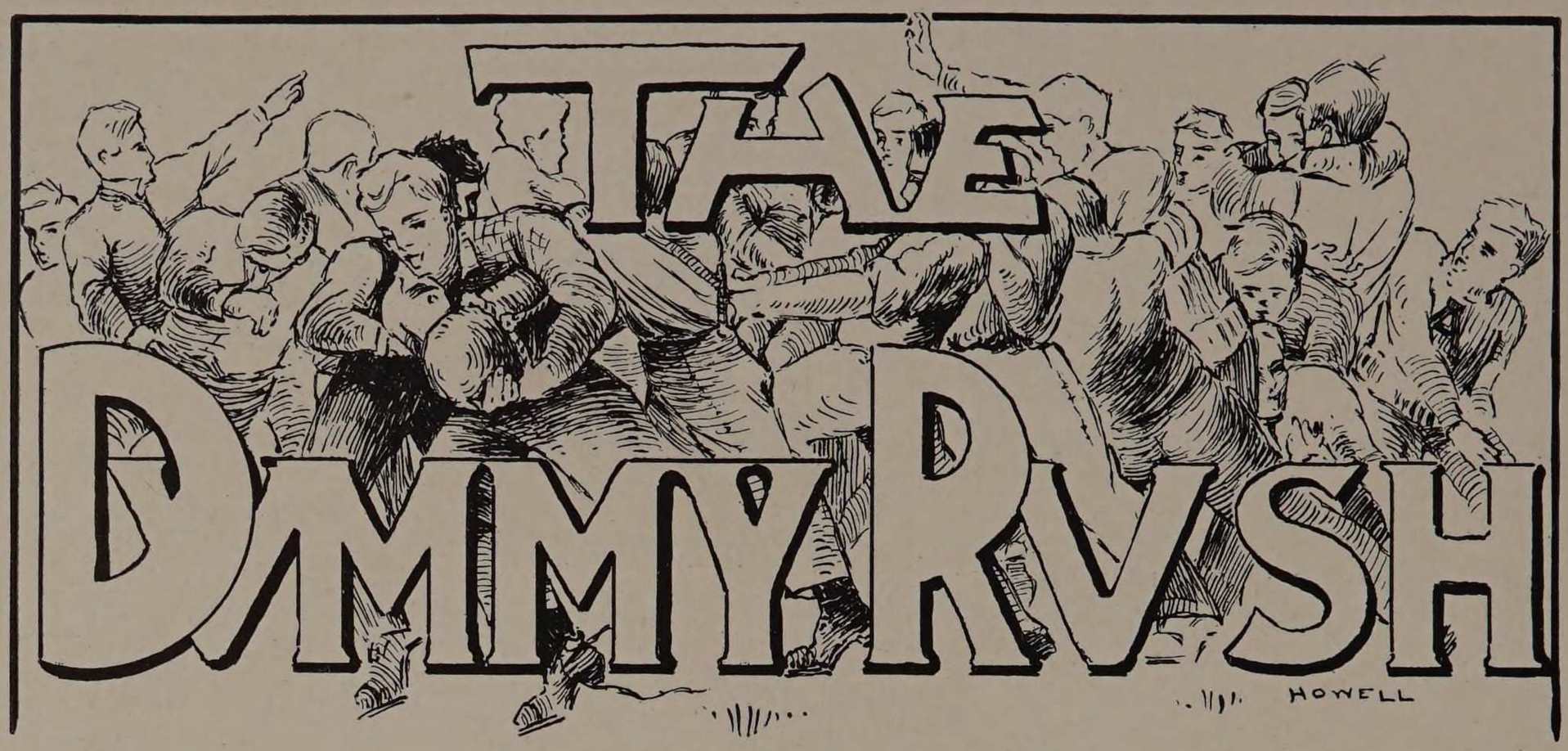
Armour Night at The White City



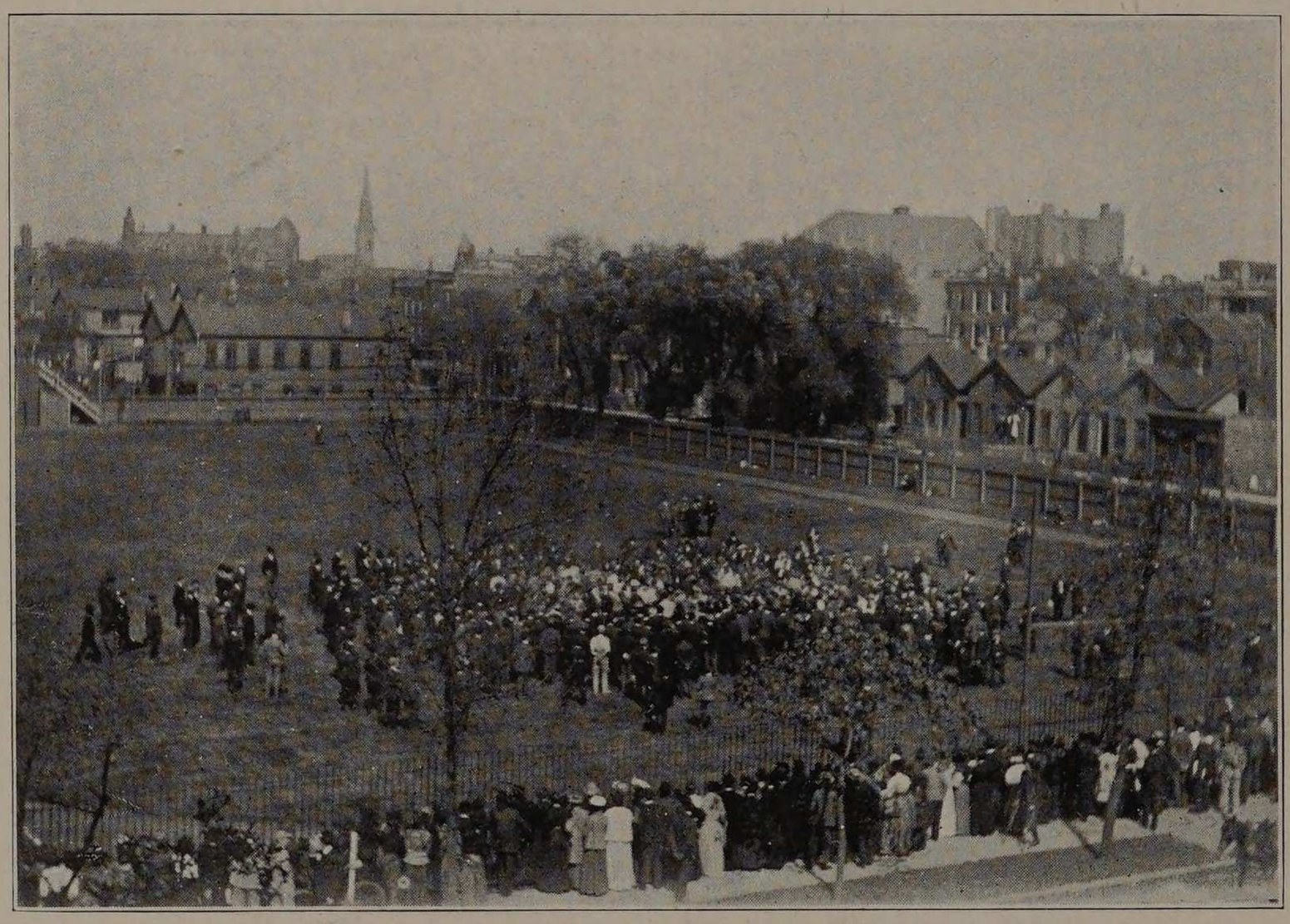
Yes, it was on the evening of June 13, 1905, that the first official "Armour Night at the White City" took place. This was on the Tuesday night before the final day of the final exams, yet this did not seem to dampen the spirits of some thirty Armour fellows, who, en masse, proceeded to own things. The first place victimized was "The Bumps." Oh, how gracefully we all descended that precipitous flight! After this and a parade around the board walk, we bore down upon the "Scenic Railway." It took two trains to accommodate the crowd. C. U. Smith and "Chubby" Walters lost their hats while en route, but these were soon recovered. Then Maher steered the fellows to the "Figure 8," and by the time we all got aboard there every car on the "8" was loaded with Armour fellows, all yelling "Arch! Mech! ... ! ....!" but all in different phases.

Next came the "Chutes." "Weedy" Hebard wanted a bath. He got it, of course (and so did we). Having traversed land and water, we thought we would try aerial navigation, so everybody went to the "Flying Airships." Several of the gang were sick after this; among those taken to the Hospital being Rawn, Mathews and Walbridge. However, they recovered soon. Not being satisfied with the shows we had seen, we decided to run a concession of our own. This we opened up under the "Ball Room," with C. U. as barker and manager, and the gang as actors, ticket sellers, ticket buyers (?) and con men. This proved very interesting to the other visitors of the "City." The evening was closed with a parting demonstration of the laws of the inclined plane on the "Bumps." DID YOU SEE HER "BUMP THE BUMPS?"



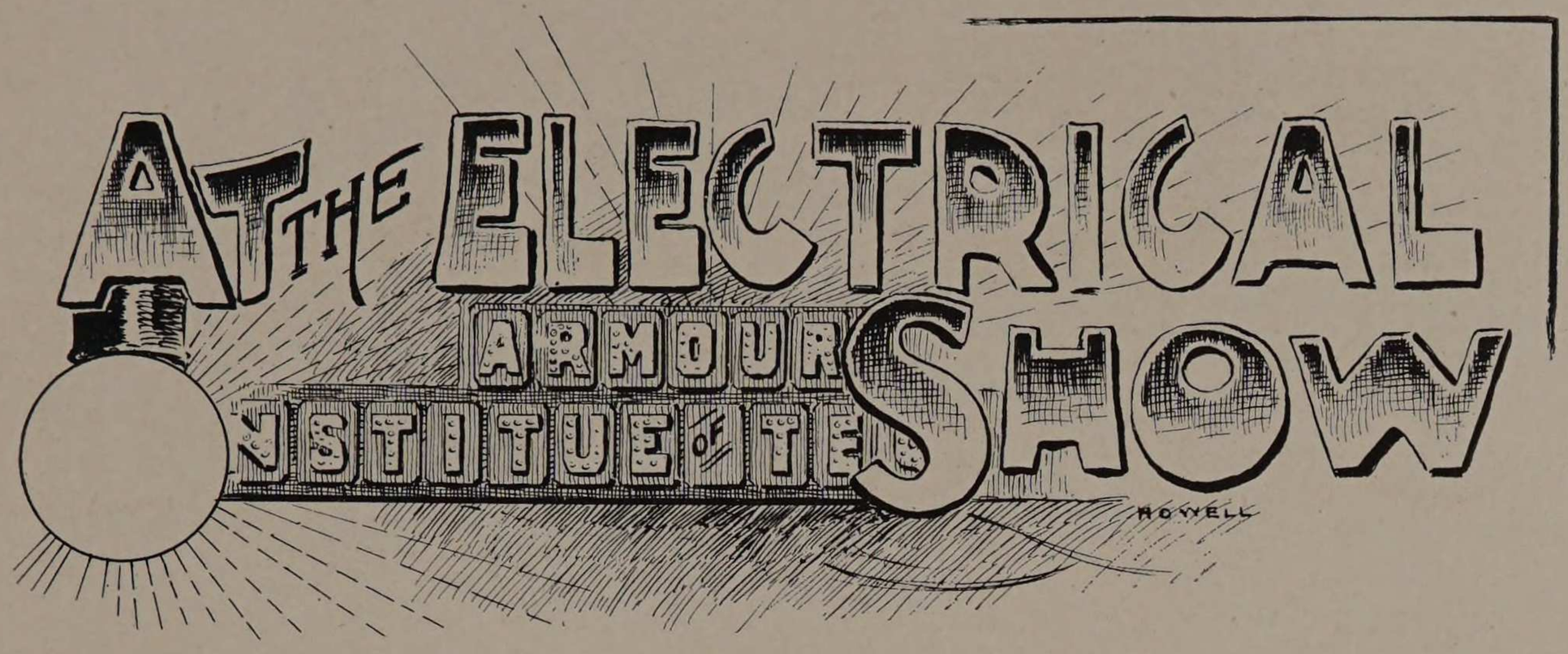


The last "Freshman Tuesday" happened on September 26th, 1905. The weather was clear and the conditions for a good class-rush were perfect. In the preliminary work—that of decoration of walks, etc., with class numerals and posters—the Freshmen had decidedly the best of it. First, their numerals "'09" were the only ones to be seen within a radius of several blocks of the Institute, the Sophs having been kept away or their numerals disfigured. Second, the little green Freshman poster, an idea original with the '09 men (which is more than can be said of the Sophomore posters), was pasted over all of the '08 posters before any one had had a chance to read them.



THE RUSH AS SEEN FROM THE MISSION.

At 12:30 P. M. both classes faced each other on Odgen Field, the Sophs under the leadership of General Martin at the north end of the field, and the Freshies, under their stalwart leader, Whipple, at the south end. Some six hundred spectators were placed at all points of vantage surrounding the field. At 12:40 the rush was on, the '08 men having the advantage at first, as the Freshies did not know their own men, and hence could not work together. When a second trial took place the Freshies had no difficulty in forcing the Sophs "to the wall." With one victory for each the decision of a draw was given and the dummy was burned on the field with all classes circling around it. Then with a few words from "The Doc" Freshman Tuesday came to an end.



At the first annual "Electrical Trades Exposition" held in the Coliseum, from January 15th to 27th, 1906, the Institute was very well represented. Its space comprised three booths, two for the general Electrical work of the Institute and one special one for the Telephone Course alone. In comparison with the other college exhibits, Armour was far ahead.

Several instruments, designed and constructed by the Institute, were displayed, as were samples of the students' laboratory reports and drawings of electrical machinery. The oscillograph, which was shown in operation, attracted much attention and interest from the visiting engineers, as it is the only instrument of its kind in the West. The Telephone exhibit, wherein were shown the connections made and broken in completing an ordinary telephone call, was an especially attractive feature of the Institute's showing,



AT THE ELECTRICAL SHOW

Every evening a number of Armour fellows would meet at the booth and proceed to advertise it by means of the most approved manner of giving the Tech yell. The attitude of the general visiting public was very encouraging, many remarking that, all in all, Armour Institute's exhibit was the most instructive as well as the most interesting one of the whole show.



JUNIOR WEEK

First Marshal,
Harold Ralph Badger

Second Marshal,
Charles Sumner Henning, Jr.

Third Marshal,
Edwin Hardin Ellett, Jr.

Sub-Marshals,
Clarence Urling Smith
Earl Weston Jones
Harold W. Jones
Arthur Allen Kelkenney

Program of Junior Week
May 21st to 25th, 1906

Monday, 10:30 A. M.—
Assembly in the Mission.
Address by President Gunsaulus.
Vocal Selections by Mrs. Krum.
Violin Selections by Mr. Blaha.

Tuesday, 8:00 P. M.—
"Math. Cremation" on Ogden Field.
Freshman Pamphlets, Doc. Campbell's "Calculus" and Irvy Church's "Mechanics" consigned to the flames.

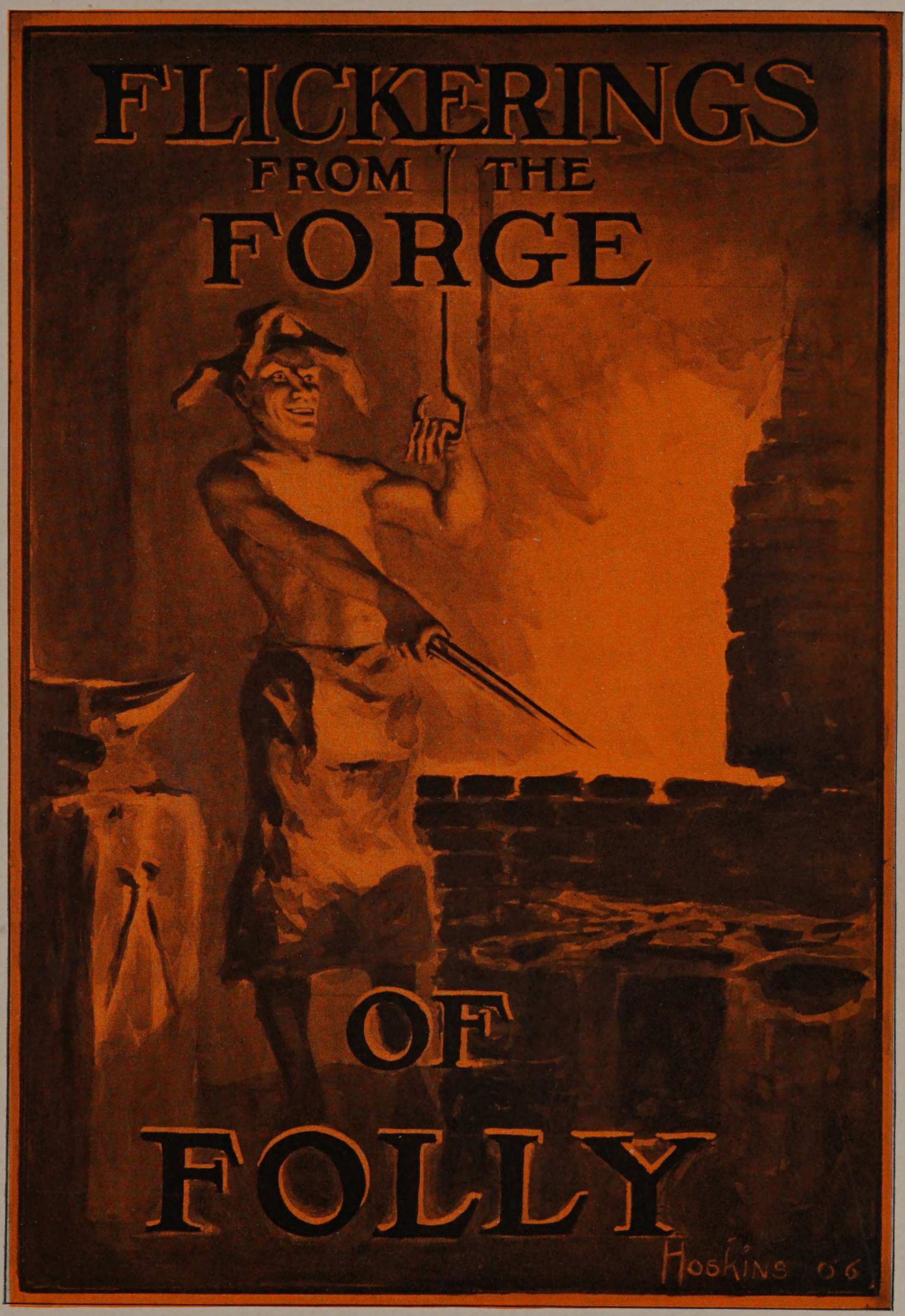
Wednesday, 7:30 P. M.—
Junior Class Banquet at "The Union."
President Henning, *Toast-Master.*

Thursday, 3:30 P. M.—
A. I. T. vs. Northwestern.
Baseball on Ogden Field.

Friday, 8:15 P. M.—
Annual Spring Home Concert of Glee and Mandolin Clubs.
10:00 P. M.—
Inspection of Institute Buildings.
10:30 P. M.—
Junior Informal Dance in Gymnasium—Lawrence Orchestra.

The Class of 1907 undertook the task of starting "Junior Week" at Armour, and after much preparation and labor, gave it to the Institute, as outlined above. It was intended to issue the College Annual, a Junior publication, during this week, but unforeseen circumstances did not permit this. The week as a whole was a grand success. It is a good custom, well started, and promises to be one of Armour's most cherished traditions.

FLICKERINGS FROM THE FORGE



OF FOLLY

HOSKINS 06



CAUGHT IN THE ACT; OR, "WHAT ARE THE WILD WAVES SAYING?"

Imagine

Suppose, said the professor,
Though it's a thought stupendous,
Suppose a baby one year old,
With arms of the tremendous
Length of ninety-three odd million miles,
Should, in the freak of fun,
Reach up and touch the sun.
That child would be
Two forty-three
Years old,
I'm told,
Before it learned
Its hands were burned.

—Sil.

Score One

Binder (at end of term).—"Professor, I am indebted to you for all I know."

Professor Wilder (pleasantly).—"Oh, don't mention such a trifle."

Easier Said Than Done

Rawn (in Machine Design Quiz).—"Professor, I forgot my compass."

Mr. Briggs.—"Use a dollar."

Rawn.—"Lend me one, will you please?"

Mr. Briggs (hastily).—"Just a minute, and I'll find you a compass."

Happy Thought

Instructor—"What is the meaning of the term 'coincidence'?"

Freshie.—"Why,— why,— er,— it means when they both coincide."

Rumor

Mary sat upon a pin,
But showed no perturbation,
For some of her was genuine
And some was imitation.

A Little Saying

First Student.—"Say, has Mr. Little any children?"

Second Student.—"Yes, two. Why?"

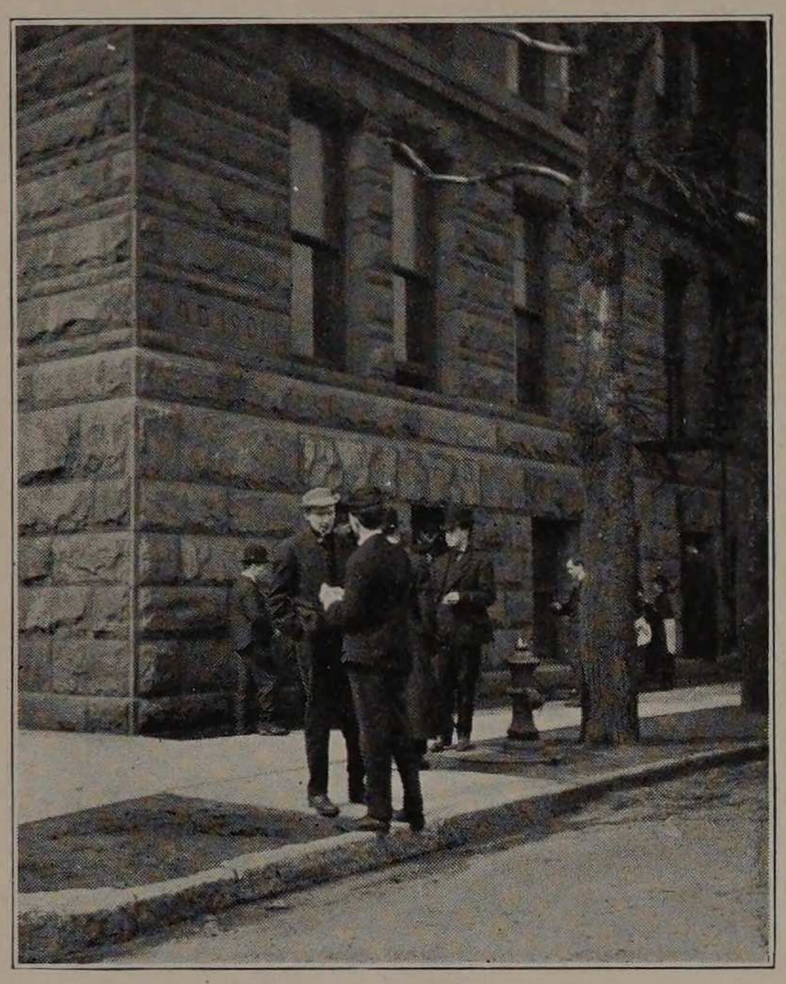
First Student.—"Oh, I just wondered. You know, every little helps."

Next!

A curious student does not see why, if Dr. Campbell is called a Mathematician, Prof. Wilcox cannot be called a Physician.



SO NEAR AND YET SO FAR—IN A FACULTY GOLF CONTEST



JONES GIVES SOME DOPE ON AUTOS

Five and Costs

"Dijever get roped into one o' them Justice Courts?" says Brown, and then pauses while some of us admit that we never have and Smithy denies that he ever has. 'Well, when I was called I goes down, and when I gets into d' room I don't see anybody at d' desk fer a w'ile, 'n then about two minutes 'fore time's called, a geezer in a long black coat and a stove-pipe, with the three lower buttons ov his vest unbutton'd, swaggers in 'sif he owned the hull side o' the street. He hems and haws a bit 'n then he sings out suth'n 'o which I can't make out nuthin' but some guy's name. (The guy that's first is the lucky man, 'cause 's long's you're roped in, it saves time to git fin'd first an' pay up 'n git out.) Well, anyway he fin'lly sings out suthin' more with Brown tacked onto the end, so I santers up t' him 'n says up the perceedure.

'Mornin'' 'sif I'd just been studyin'

'YournameBrown?' says he.

'Check,' says I, and he looks over th' tops 'v his glasses t' see if I wore any dimonds.

'Brown,' says he, 'you are summoned t' 'pear here on this day fer drivin' above the speed limit on Mich'gan Avenoo near Thirty-first Street, at Eleven-fifty-five P. M., on the night of Friday,' etc., etc.

'Wrong,' says I. 'Didn't leave Thirty-ninth and Indiana 'til Twelve-ten.'

'Where was ye goin' at that time?' says he.

'Comin' back frum Jackson Park,' says I.

'Where'd you bin 'fore that?' says he.

'Evanston,' says I.

'What time 'dye reach Evanston?' says he.

'Dunno,' says I.

'What time 'dye leave Evanston?' says he.

'Dunno,' says I.

'I'll jest rap ye five on that t' quicken yer mem'ry,' says he, and I thinks t' meself that that's a pretty good ad fer a Justice Court.

"Well, he hemmed an' hawed and fin'lly he hands me 'five and' and tells me to skidoo. I waltzes over t' git me check, and Holy Cow! I'm handed $9.65 C. O. D. fer costs. Mebbe that's th' candy allright allright, but I'm bettin' five to one that that extra fifteen cents was the price ov a segar for th' Justice. Me fer the Chemistry and shop fees. They're a lunch compared to these Justice Courts."



CROSBY WINDS UP A THIRD STRIKE



EHRETSMAN AND HIS TWO SATELLITES

At the Electrical Show

Saunders (to attendant)—"What makes that meter creep so?"

Attendant—"Why, you see, it's running on 100% overload."

The Fair One (as Thordarson starts his spark)—"Oh! but doesn't it make a hideous noise? What makes it act so?"

The Escort—"Well, you see, the amperes go over the glass and the volts go under."

Prof. Rice—"What do they most usually use to insulate cables, Lurvey?"

Lurvey—"Lead, I think."

Some Absence Excuses

(ANONYMOUS)

"Sickness"—the old stand-by.

"Had the mumps"—a variation of it.

"Violent headache"—looks bad on Monday.

"I was home sick"—ambiguous, if from a Freshie.

"Accident at home. Unable to come"—maybe the "old man" was up with a sick friend.

"Outside work"—53% use this every day.

"Shoveling snow for board" — rather a cold meal.

"Excessive overtime at the office"—the ink-wells must be cleaned at times.

"Detained by home duties"—can't explain it.

"Overslept"—not many as frank as this one.

"Went to Electrical Show and got up late"—how is that for an 11:30 class?

"Down town on business"—good bill at the matinée.

"Appointment with Eye Doctor"—such vanity!

"Called out of city on sudden notice"—sounds like an unpaid bill.

"Missed train"—could it be possible that it was ahead of time? Maybe, providing it was not the Davis Route.

"Trains delayed"—as frequent as sickness.

"Wreck on the 'L' "—they must have awfully poor service from the numerous appearances of this.

"Weather caused an interruption of the traffic"—you'd get credit for originality and finished style on this version of it.

"Had decided to quit the course but was forced to continue"—another example of home rule.

"Explained to the Dean"—a horrible bluff.

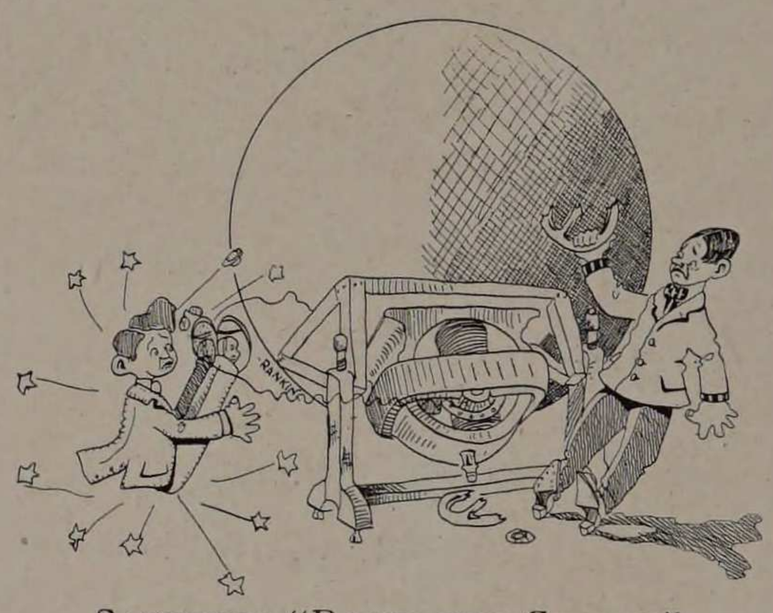
"No text book"—not becoming for a 30 cent French reader.

"Jewish Holiday"—would you think Geist capable of a thing like that?

"Tardy and locked out"—when Prof. Wilcox got to the door, the candidate was disappearing around the corner of the elevator shaft.

"Grandmother died"—That shows when the team plays at home.

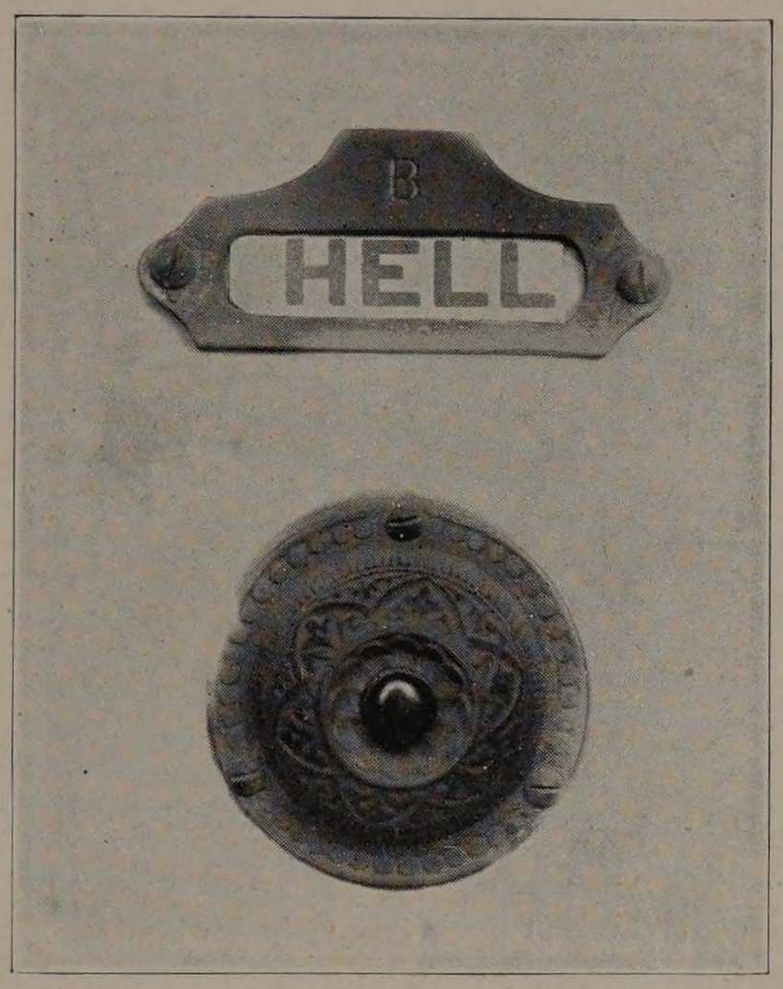
"Had a condition exam"—never use this. It draws attention to the fact that you are probably cutting other classes.



SAUNDERS "ROCKS THE CRADLE"



THERE WAS ONLY TWO AMPERES THERE, BUT—



DOOR-BELL OF 34TH ST. PHYSICS LAB.

Another Shell-Game

"Why is a hen or go fishing?"
This question deep and fine
Was popped by some upper classmen
At a shy little Fresh of '09.

The Fresh scratched his head for a moment
(His forehead o'erspread with cold sweat),
Then spoke in a tone somewhat backward:
"Because an egg-omelet."

The Influence of Proximity

Parry (near the "Beanery").—"Have you eaten your lunch yet?"

Taylor. — "Yes. You have eaten, too, haven't you?"

Parry (unintentionally).—"No, not yet. Only one."

New Definitions

Dunbar.—"A straight line is the straightest distance between any two points."

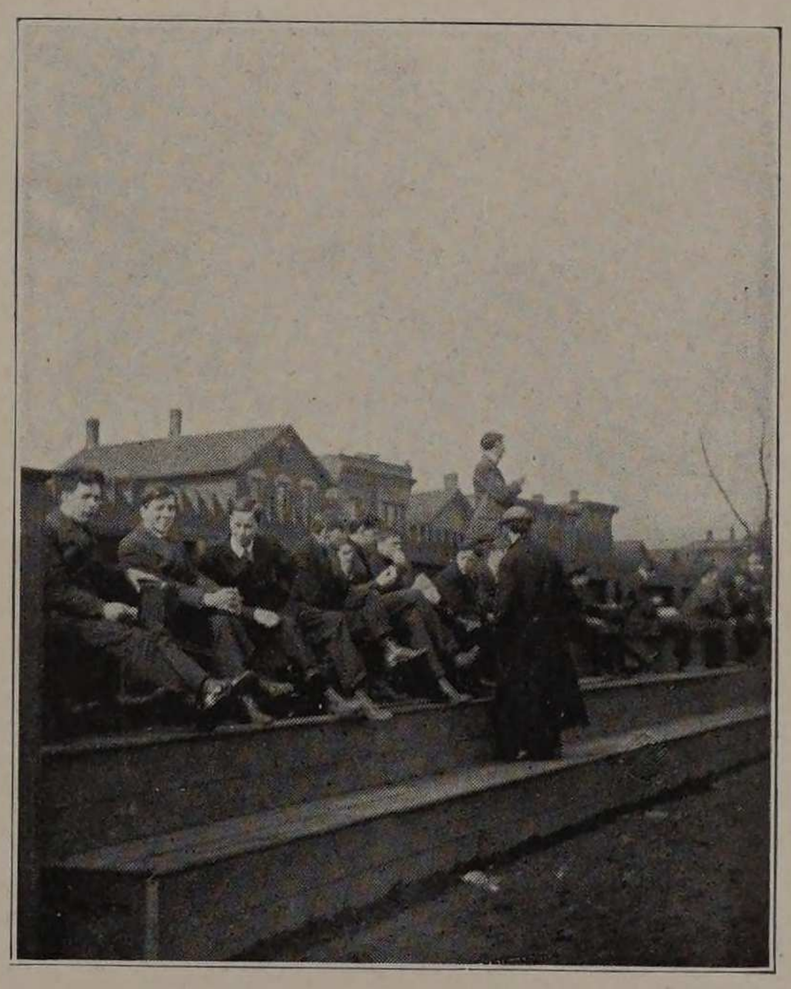
C. U. Smith.—"Poetic License is where you call a man a liar in a smooth, round-about way and don't get licked for it."

So They Say

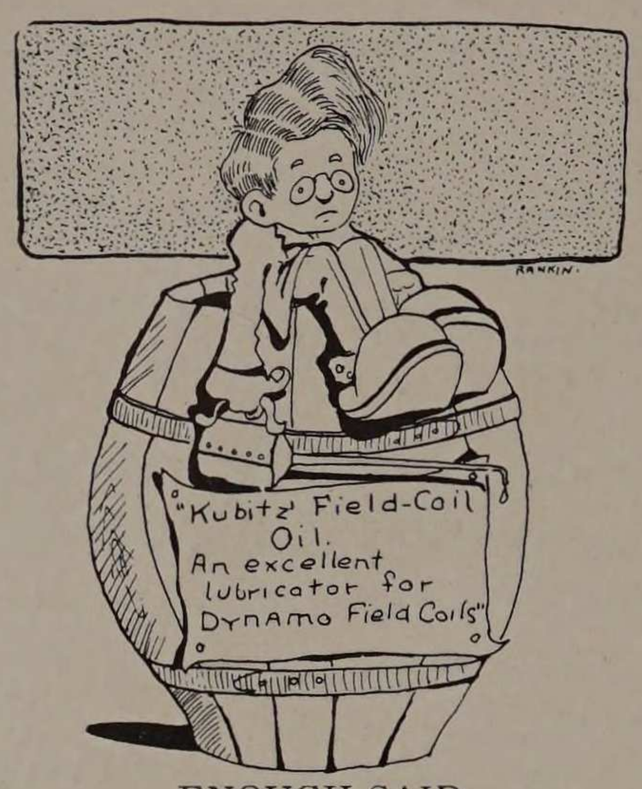
There was a young student named Matchett,
Who dug out his thoughts with a hatchet.
He worked up in each class
To where he thought he could pass,
Then he held himself there with a ratchet.

Hush, You'll Wake Him

We understand that another Freshman has been around trying to find out "When Independence day comes." Maybe if he keeps his ears open he will hear a few reports which will "put him on" at the proper time.



THE NOON-HOUR BUNCH ON THE BLEACHERS



ENOUGH SAID.

Ouch!

Close Shave Dan, the barber man,
Upon his oath alleges
He caught his helper cutting nicks
In all the razors' edges.

The helper, in his sworn reply,
The accusation won't deny,
But says, with razors it's the same as books:
Deckel edges help de luxe.

College Days

First Stranger (watching game)—"Ah, these practice games in the early fall! How they remind one of his own college days when he sighed for a place on the team! How it quickens one's blood to live it all over again.!"

Second Stranger—"Yes, they certainly awaken fond memories. That little fellow playing 'quarter' reminds me of 'Old Stumpy,' who used to play with our team. Would I were now in dear old alma mater."

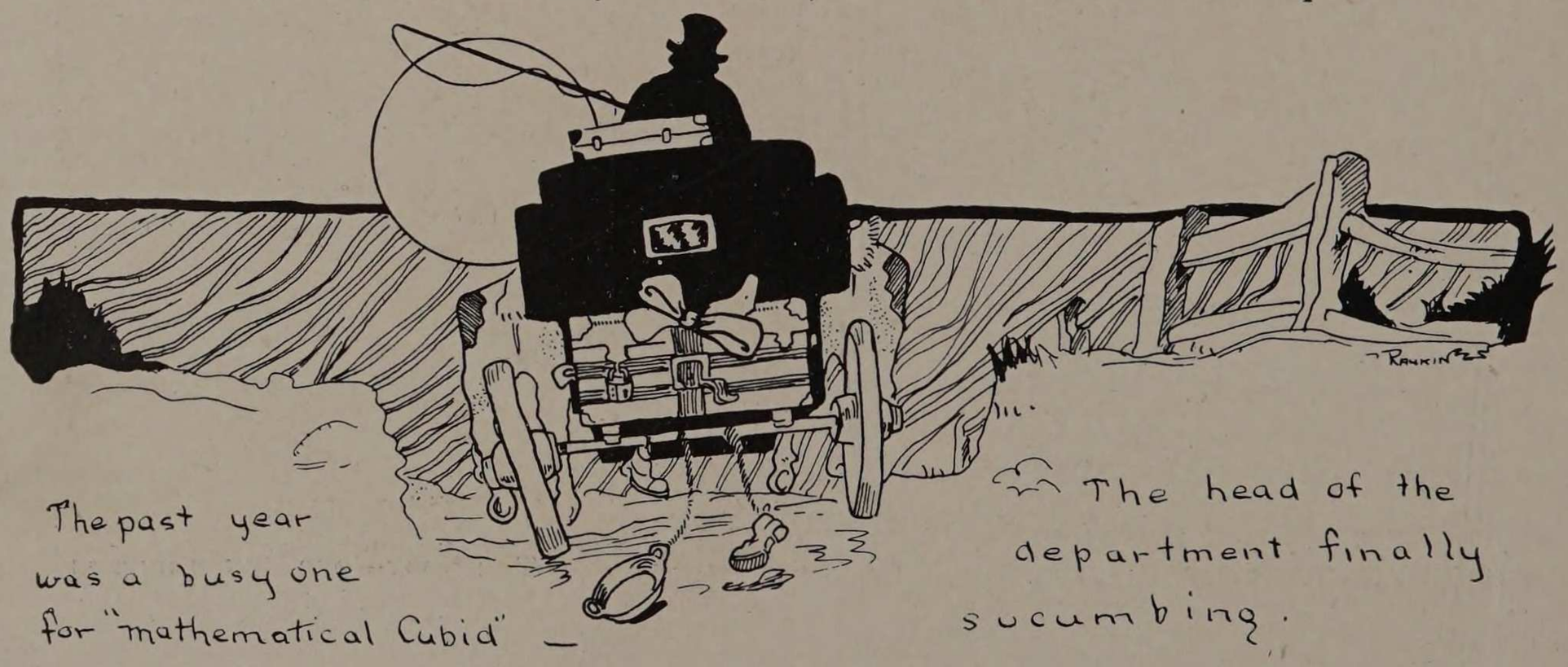
First Stranger—"What college do you come from?"

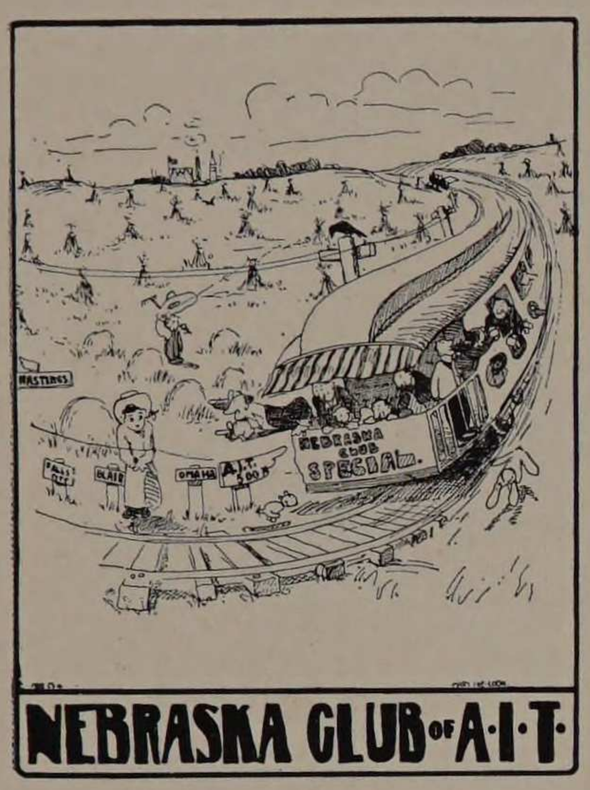
Second Stranger—"Why —er— from the Steam Engineering Branch of the Evening School of the Bugville Y. M. C. A. May I ask what your college is?"

First Stranger—"Why, yes. I received the degree of B. G.—Bachelor of Gasoline, you know—from the Correspondence School of Motoring."

Too True

Eyers—"Why is Calculus like counterfeit money?"
Buehler (who knows if any one does)—"Because it's hard to pass."





How Music is Advertised Today

"Come Where my Love Lies Dreaming" with illuminated cover.

"Home, Sweet Home" in A (a) Flat.

"Dance of the Mermaids," many scales.

"When Johnnie Comes Marching Home" in double time.

"The Widow," very pretty and fascinating.

"The Touch of a Woman's Hand." Have you tried it?

"Tale of a Kangaroo"—a very great hit.

"The Tortured Thomas Cat"—a great musical success.

"The Old Oaken Bucket" full of harmony.

"The Old Baseball Diamond" with a new first bass.

Whoa!!!

Prof. Colledge (as the plaster begins to drop).—"What on earth is all that noise up there?"

The Class.—"It's just the fellows getting dressed after gym."

Prof. Colledge.—"Do they always dress as loud as they are now?"

Trouble

Prof. Leigh, we understand, always has a couple of jays (j's) to get rid of at every math. lesson.

A Wild Guess

Instructor.—"What is one divided by nothing, Jones?"
Jones.—"Infinity."
Instructor.—"And what is two divided by nothing, Boylston?"
Boylston (dreamily).—"Infinite bliss, I presume."

"D's"

To sit in front and not in back
While Monin talks Psychology,
To whisper there and derbies crack.
This is the way to get a "D."

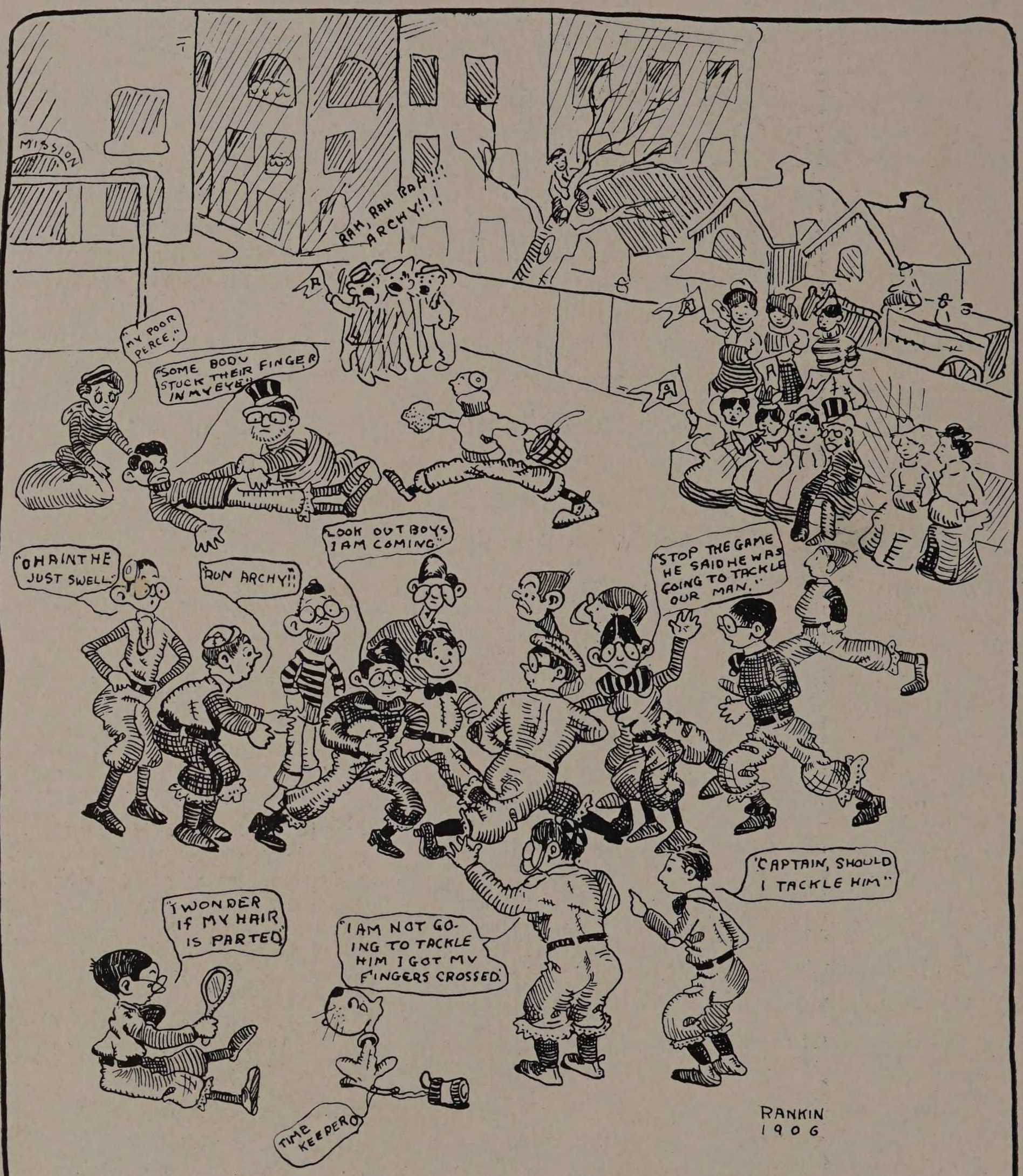
Dignity

First Junior (in Machine Shop).—"Are you going to cut your gears today, Machett?"

Machett.—"Well, I guess not. I'm through cutting teeth."



INTERIOR OF AN ARMOUR STUDENT'S ROOM



Football as it should be.

FOOTBALL AS A "GENTLE GAME"



PROF. WILCOX DESTROYS A VACUUM

At the Time of the Yellow Peril

Oh for a booke and a shadie nooke
(Whenever I finde the chance,
If the Prof's not lookynge adown my waye,
To steale a furtyve glance),
Where I maie all of the answers finde
By peakynge stelthilye.
For a ponnye or booke, whereon to looke,
Is better than golde to me.

Freshman Math. Club

At the last meeting of the Freshman Math. Club the members were thrown into feverish excitement by a treatise entitled "The Area of a Knot–Hole," which was rendered by Bassett, '09. His proofs were so exceptionally rigid as to excite some little comment, while their originality was something stupendous. Mr. Bassett's invention of a surface of sixteen dimensions (which he calls a "Hypothetical Whattenot"), and the use of its intersection with two parallel planes to establish his most important formula, caused Prof. Riggs to unbutton his vest and remove his glasses, while Mr. Joslyn became so abstracted that he ate five inches of a purple necktie which had been given him for Christmas.

A Hint

(Found on the fly-leaf of Pettibone's Calculus.)

If there should be another flood,
Hither for refuge fly.
For should the whole world be submerged
This book would still be dry.

Have You Noticed It?

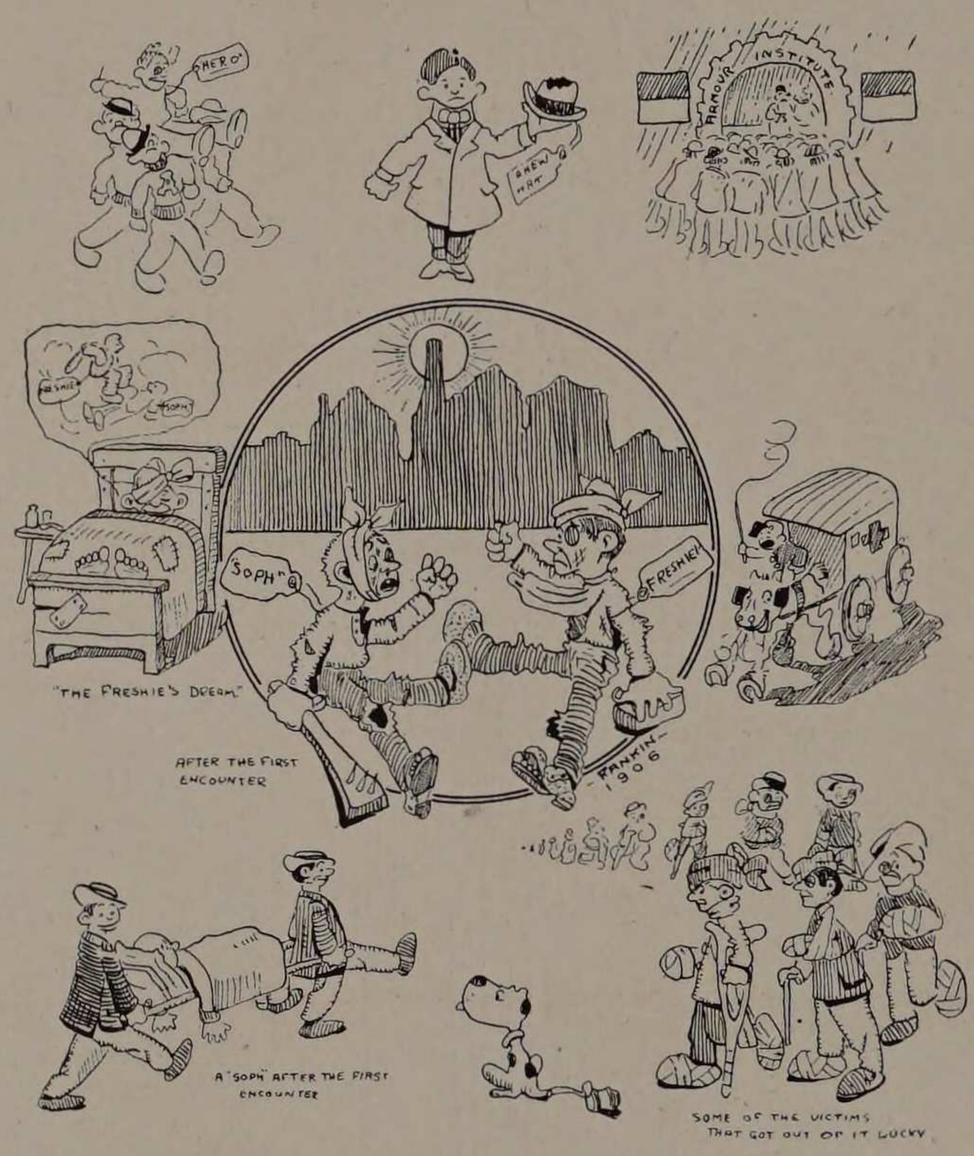
In Monin's class
It beats the Dutch
How Deming gets
Called
Down
So
Much.



THE ONLY CLASS THAT COPE ATTENDS REGULARLY. "NOTICE ALL THE DEAD ONES."

The "Pony"

1. *The "pony" is my helper,*
   I shall not flunk.
2. *He maketh me to know many things forgotten.*
   He leadeth me into depths unknown.
3. *He relieveth my mind.*
   He guideth me into realms of glory for my marks' sake.
4. *Yea, though I walk in a vision of undoubted failure*
   I will fear no exams: for he is with me.
   His lines and his promptings uplift and sustain me.



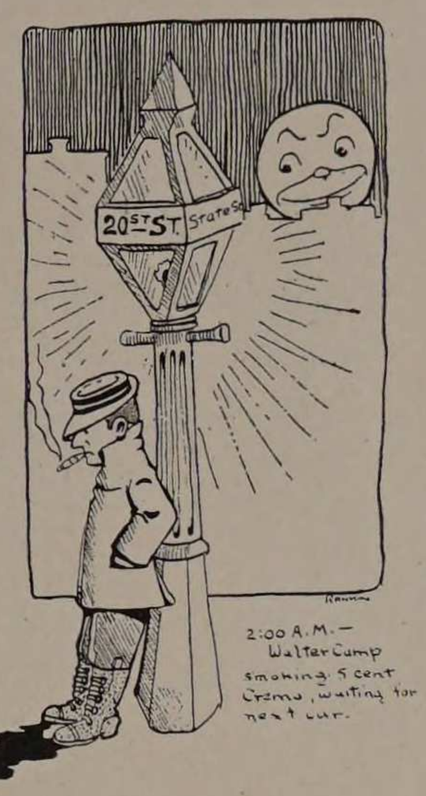
TR Connection with the Class Rush.

5. *He prepareth a way for me in the presence of my teachers.*
   He showereth glory upon my head.
   My report runneth over.
6. *Surely he will make praises and A's to follow me even unto the end of my college life;*
   And I will dwell in the stable with the "pony" even unto the end of my days therein.

P. H. W.

Answer to an Inquirer

No, dear reader, Walter did not mind waiting for the "African Express" even if it was cold. It never bothers him to hang around, you know; and besides, you don't get a "Cremo" every day in the week.



Going One Better

Beaty—"Say, Johnson, did you hear that some of them experimenters are talking about crossing strawberries with the milk-weed so as to have strawberries and cream?"

Dakota Johnson—"No, but say, up in my country they have crossed lightning bugs with bees so the bees can work at night."

Beaty—"It does beat all what they can do. Now, out home they plant potatoes and onions in alternate rows. That makes the eyes of the potatoes water so that they don't need irrigation."

A Maverick

There once was a man named Coffeen,
Whose hair could scarcely be seen.
He taught kinematics
To so many fanatics
He had to take dope for his spleen.

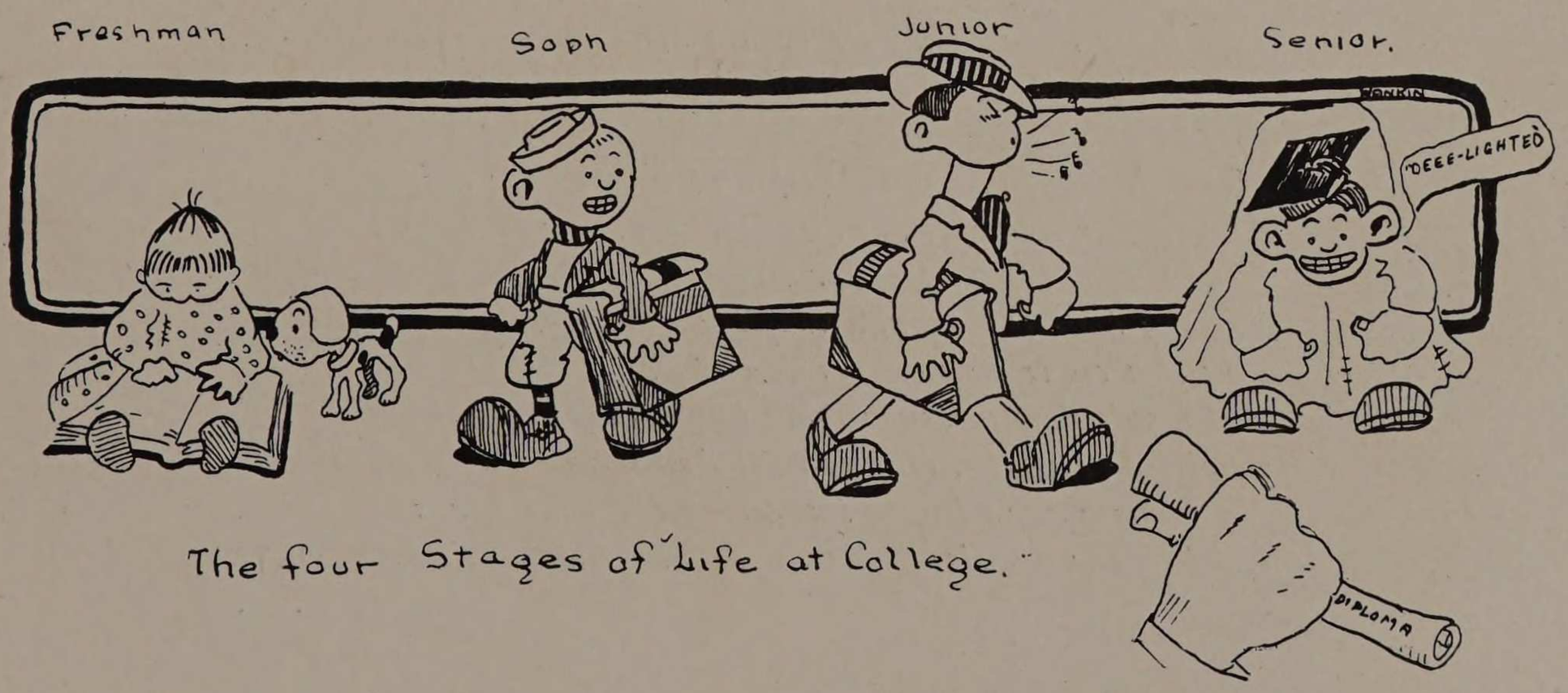
Without a Doubt

"Young man," said Mr. Freud as he grabbed a frisky sophomore by the shoulder, "I believe Satan has got hold of you."

"I believe he has," calmly retorted the unruffled student.

Possibly

Henning looked thoughtfully at the Zeno slot machine. "Fellows," he said, "here's another one of those pre-payment meters."



The four Stages of Life at College.

SUSPECTION VISITS

In the quiet of home life, once was a young man,
Credulous, easy. Focused his optics,
Clear-sighted lanterns, upon the Tech. year book.
Read all the pages, gloated upon them.
But what in the pamphlet caused him most joyance
Was legend in bold face, footing the column:
"Suspection Visits." (See page one hundred.)

Stayed not a minute then, hunted up father,
Asked for the needful forty big cart-wheels,
Moderate ante. Planked down the dough then.
Freshman then was he, verdant and callow.
Sophomore year found him somewhat disfigured
But still in the Tech. school, excellent knowledge works,
Pining for wisdom, practical shop lore,
Power-plant visits, steel-work inspections.

Junior year came and confirmed him a skeptic
Who once was a knocker. Believed he not yet
That all men were liars, but that catalogues practised
Prevarication, percent-paying pastime, exploited the people.
Senior year made him a case hardened cynic.
Had he not passed through the four years at college?
Where in the blank then were suspection visits,
Much talked of advantage?

In mighty rage then he hit on a method,
Of direfullest vengeance, wicked and cruel,
Mixed up some lyddite, mined 'neath the main wall.
Then straightway gat he up and lighted the fuse-end—
Lingered a moment. Thunder enormous
Rent the whole structure. Nor is it recorded
That of his body enough was recovered
To fill a cigar box, horrible end point.
But a wireless message from our correspondent,
Celestial reporter, claims that e'en now
He earns a good living inspecting the gold harps
Used by the angels.

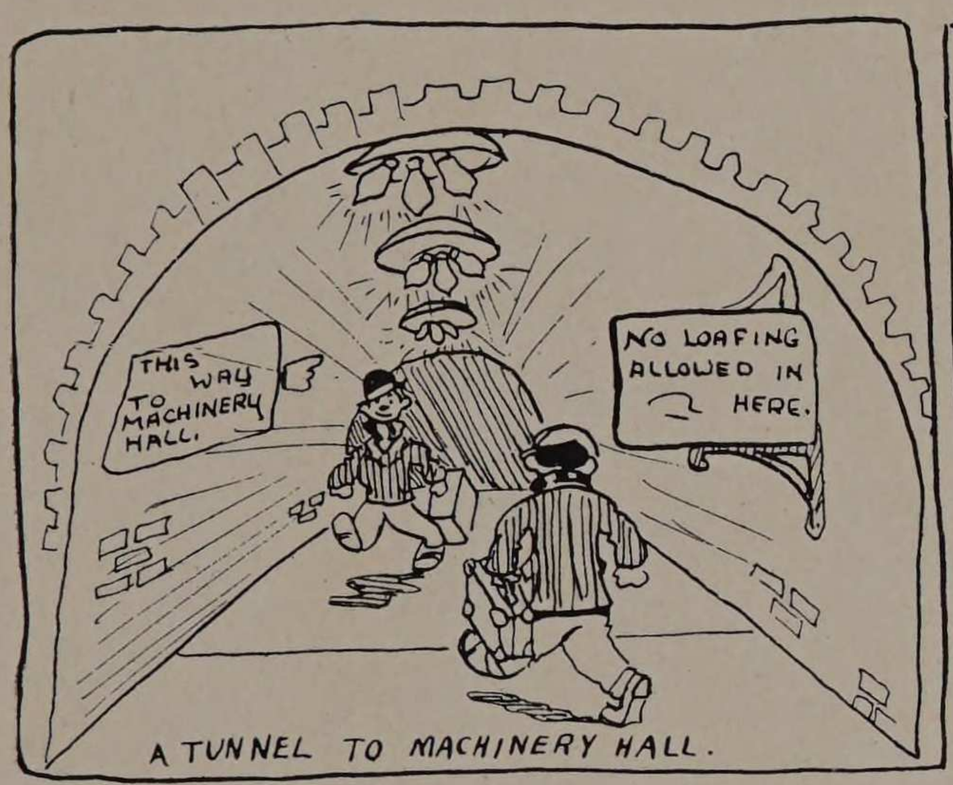
—M. T. J.

ARMOUR'S NEEDS

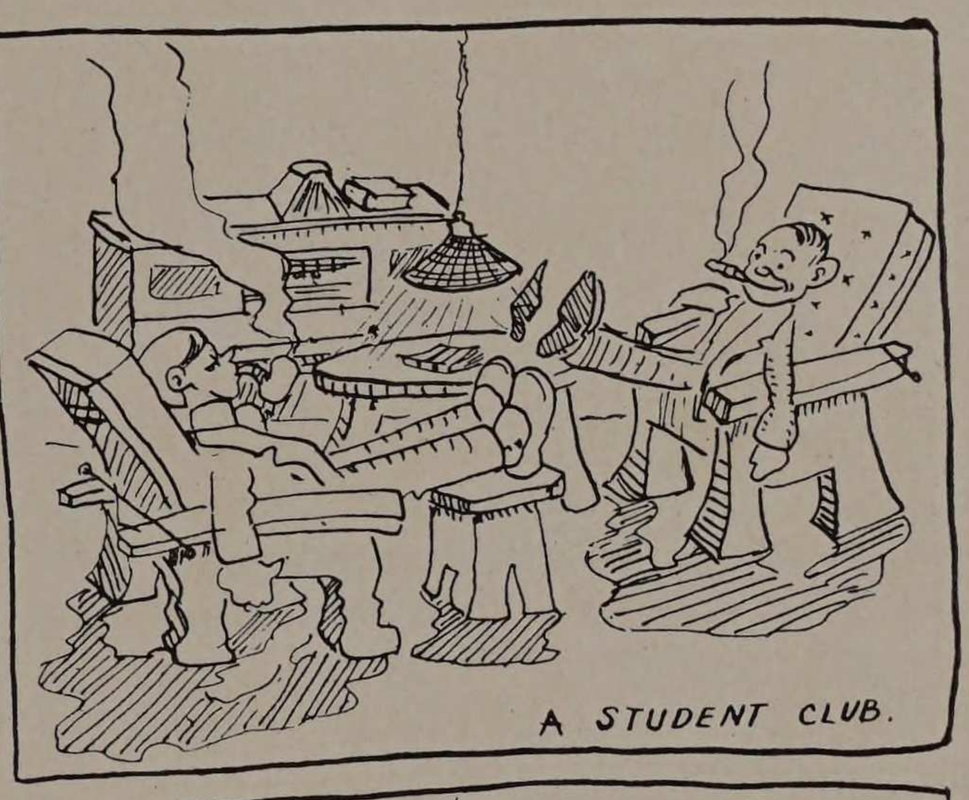
As Hinted by Some of the Most Prominent Students

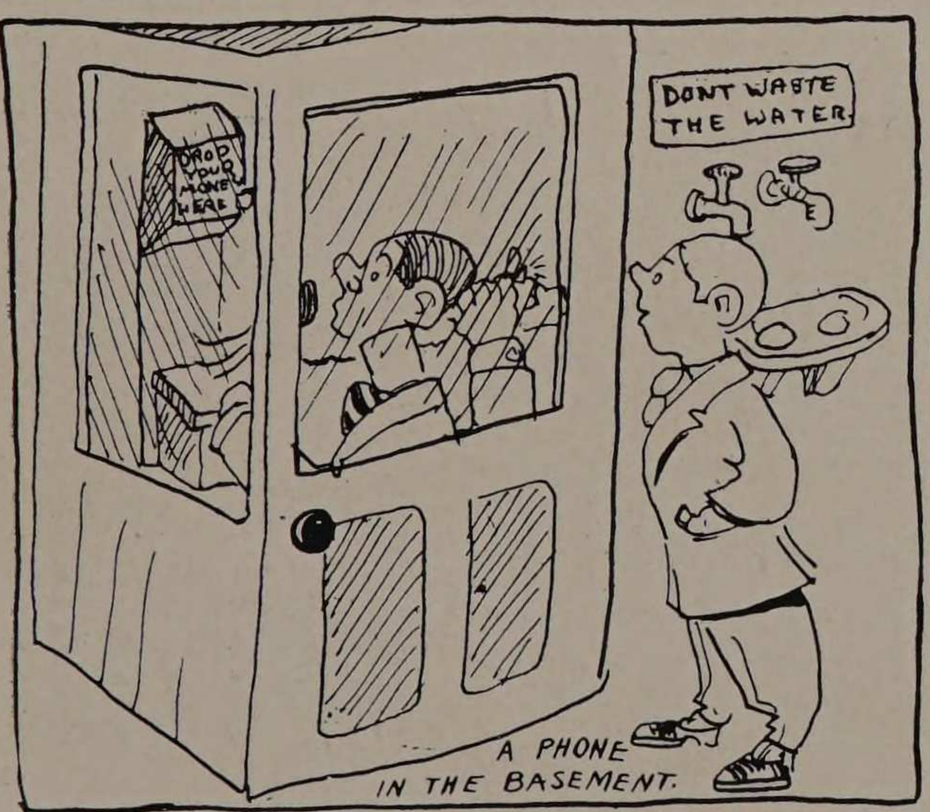
"A Tunnel to Machinery Hall" ..... *C. U. Smith*
"A Basket-Suspension Line to the Lunch Room" ..... *Copenhaver*
"A Box of Pretzels in the Front Hall, Yet" ..... *Hoffmann, Jr.*
"A Student Club" ..... *Miller*
"A Phone in the Basement" ..... *Hooper*
"A Regular Weekly Assembly" ..... *Members of 11:30 Math. Classes*
"Couches and Cigarettes in the Library" ..... *Buhman*
"More Subscribers to the Fulcrum" ..... *Ellington*
"A Way to Get a Piano into the Gymnasium" ..... *Henning*
"A Private Ambulance for Football Players" ..... *Woldenberg*
"A Bunch of Dubs I Can Beat at Tennis" ..... *Elkin*
"A Place Where I Can Find the Math. Already Worked" ..... *Lurvey*
"Another Place Just Like Lurvey's" ..... *Morrison*
"A Place to Shave Twice a Day" ..... *Dick*

ARMOUR'S NEEDS ILLUSTRATED

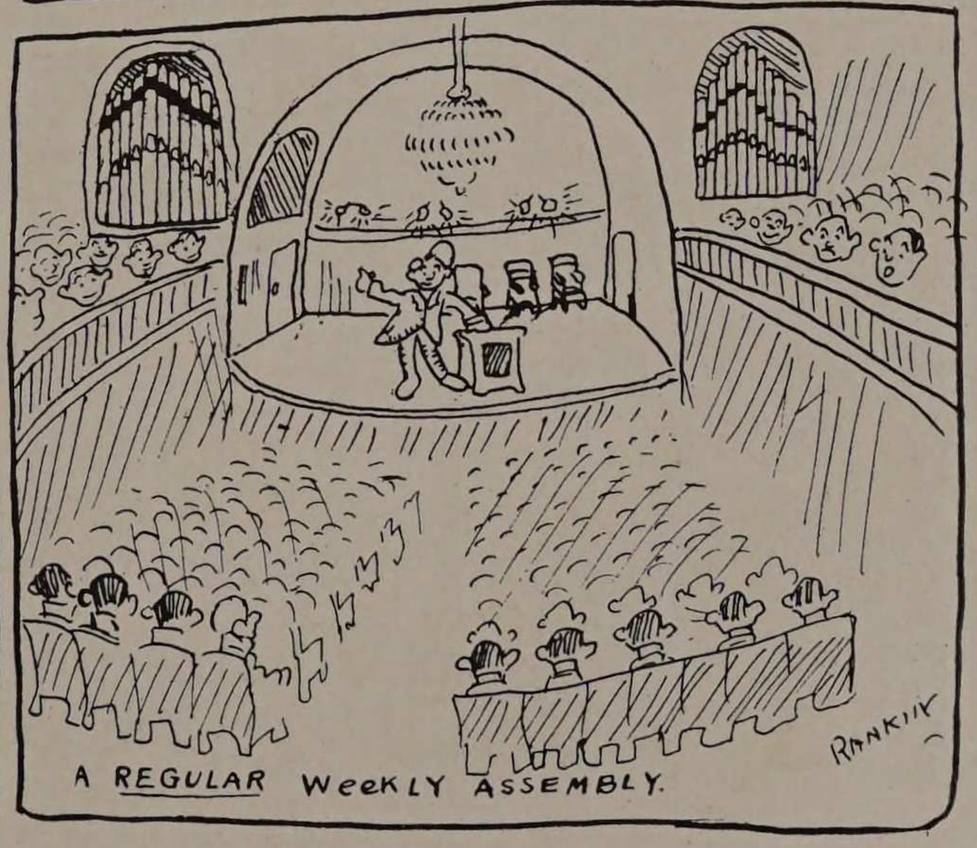


A TUNNEL TO MACHINERY HALL.

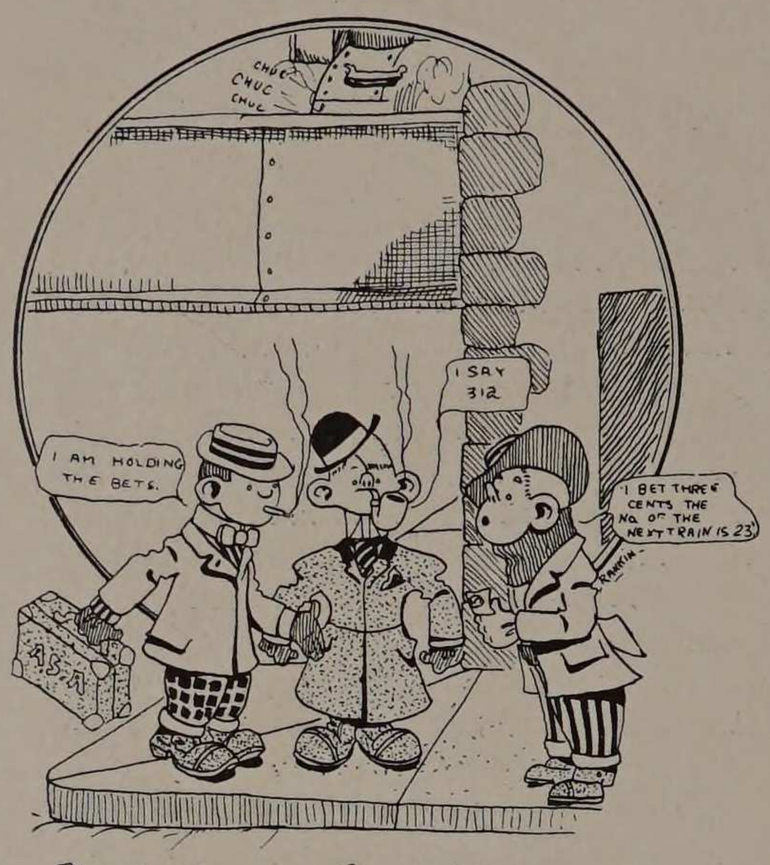

A STUDENT CLUB.



A PHONE IN THE BASEMENT.



A REGULAR WEEKLY ASSEMBLY.



The Curbstone Gamesters.

Misdeal

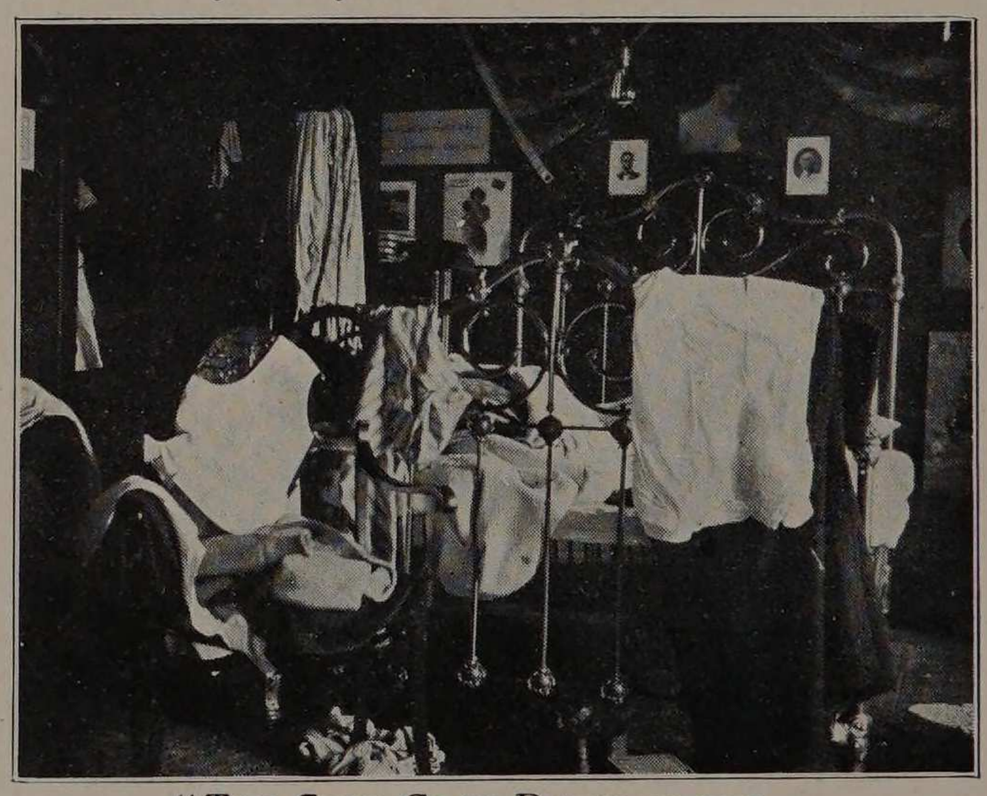
What the youthful mind will not think of it's of no use to say. The Academyites are now instituting a goo-goo eye game with the aid of the engines that pass along the Lake Shore tracks. To play it you get a pocket full of pennies and five or six other fellows. Then everybody guesses the number of the next train. Three fellows read it as the engine flies by, an average reading is obtained, and the proceeds of the ante are given to the nearest guesser.

Mr. Rooney on Chemical Engineering

"Did ye see," says Googan, "thot them Chimickle Inginayrs do be makin' tin thousand dollar-rs a year in New Yorruk?"

"Oi did," says Rooney, "but oi don't belave ut. Sure, there's Tim Doyle sinds his niphew down t'take op th' carse in ut an' they garantays t' graddywate him as a full thrimmed Commical Ingynear an' shtart him aff wid a job at a good fagure. Oi thought Tim had some sinse wanst, but it's me own opinion now thot he ought t' be taken out t' whayre the bist parrut av the popylation is vacant lots and thin coaxed t' dissapear–r over th' hill."

"Sure, oi wint down thayre wid Tim wan day whin th' kid had bin shtudyin' about a year, and we finds him in a room wid fumes as t'ick as a curtin, coffin' and snazin' and spittin' in grate stoile, whoile he was afther trying t' mix up some cracker dust with a cup and shtick he called a morthar and pesticator–r and bilin' some pink sody pop in a bayker. Th' little felly next him had some sorrut av a grane stuff that he was afther holdin' up forninst me and makin' it turn yallar by dhroppin' some little pills in ut. 'Tis a pretty thing fer him oi was a visitor, th' little shpalpeen. Sure, we hadn't been thayre foive minutes before I sees the felly across the table back away an' yell 'look out!' Thin there was a bang and somthin' whisthles by me face and lands on Tim's nose. 'Down with the Boers!' he yells and jumps across th' table, and whin the shmoke clears away I sees him sittin' astride of a little pot-bellied Dutchman and thryin' t' push his nose into the floor. Sure, it tuk three av us t' dhrag him aff. Tim was afther takin' th' kid out av school thot day, but he let him complate his coorse, and now he's worrukin' fer the Chimickle Worruks washin' bottles an' corrukin' and labelin'. Sure, 'tis not tin thousand a year that oi see in ut from hear–r."



"THE COLD GRAY DAWN OF THE MORNING AFTER."

THE INTEGRAL

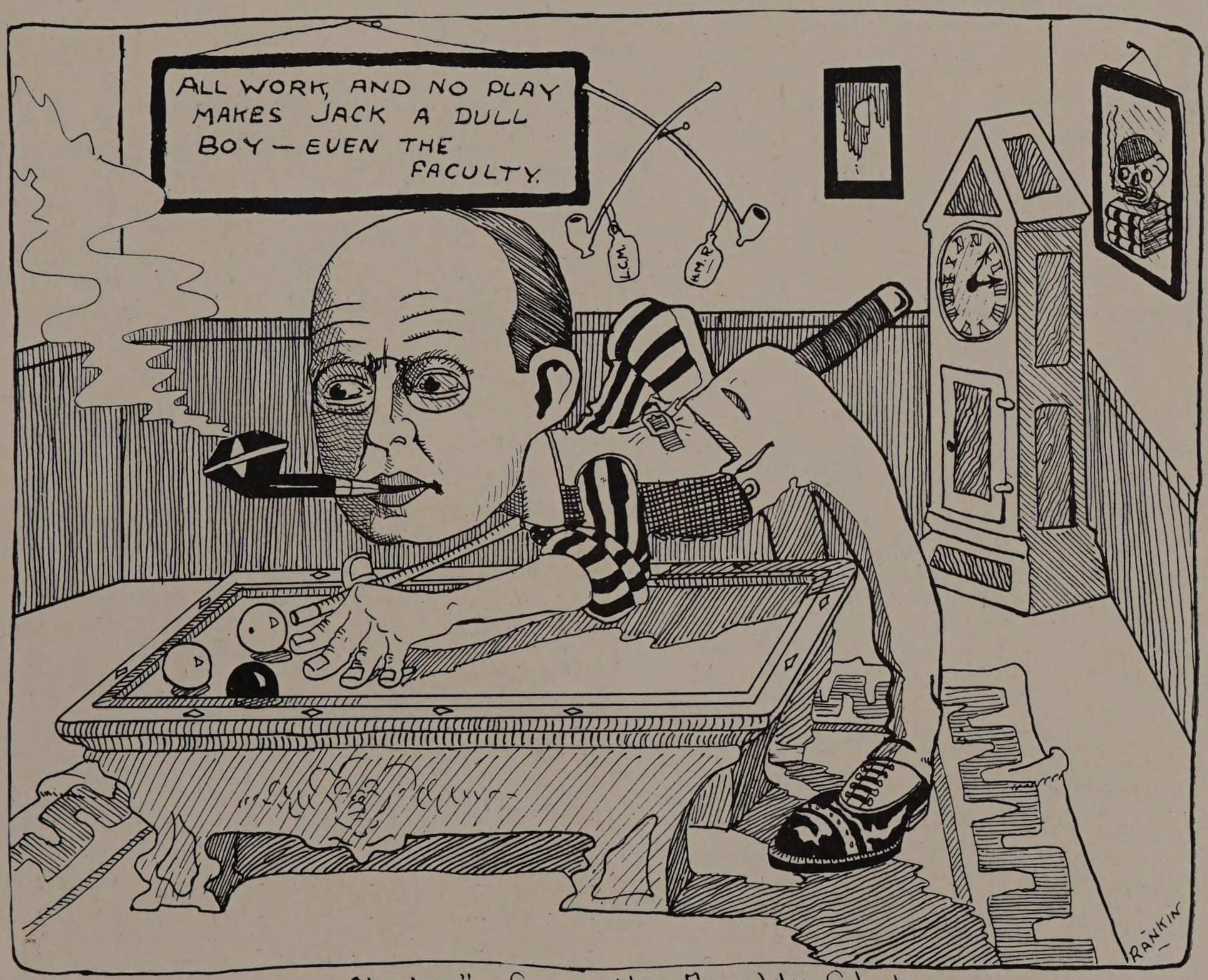
A Mathematical Biography

DONALD FRANCIS CAMPBELL was born at a very early age. His parents wanted him to grow up a bachelor, but rather than do this he ran off to sea and became a pirate. By doing 80% of his work daily, he gained rapid promotion and soon became Pirate-in-Chief of the Armour Mathematical craft.

One night, as he was shuffling along the quarter-deck deep in revery over the integral of the log of the sine of the anti-cosecant of the reciprocal of a rhomboidal hyperbola, he was rudely awakened by some miscreant whistling "How'd You Like to be a Camel (Campbell)?" The young Chief's rage knew no bounds. He shrieked frantically for his record book and gave the poor fellow a "D" on the spot and ordered that he be given twenty-four hours in which to square himself, or else be fed to the mathematical sharks.

Chief Campbell later reformed and set down the chronicle of his sinful life in a book called "Campbell's Calculus." He treats all the horrors of a mathematical career very much in detail, and, to use the words of one of his most ardent students, he takes you from schoolhouse to bughouse in twenty steps.

A CUE ABOUT THE FACULTY CLUB



Clicks" from the Faculty Club.

Inexplicable

Fisher (to waiter)—"Say, how does it happen that this baked apple you brought me is all covered with hairs?"

Waiter (grinning)—"Dunno, boss. Dey's supposed to be bald ones (Baldwins).

Clasen (Monday morning)—"Here, Jones, here is a telephone message that came for you."

Jones (reading message)—"When did you get this?"

Clasen—"Why, er, I think it came last Thursday afternoon."

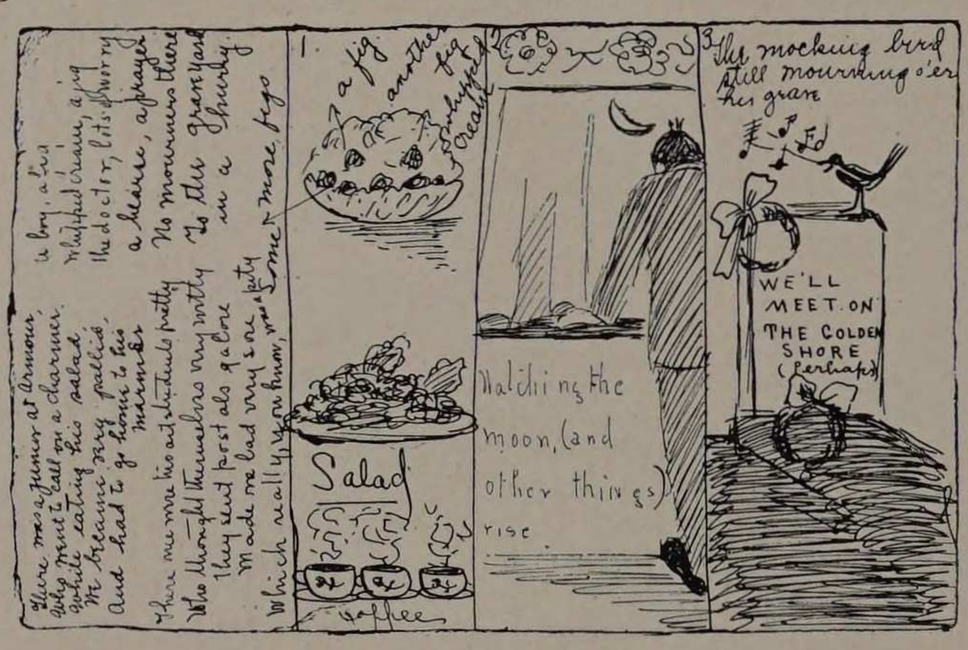
Kilgore Goes Out Into Society and Receives a Postal



A Junior from Armour.
A big dish of salad.
A helping too gen'rous,
A look quite pallid.

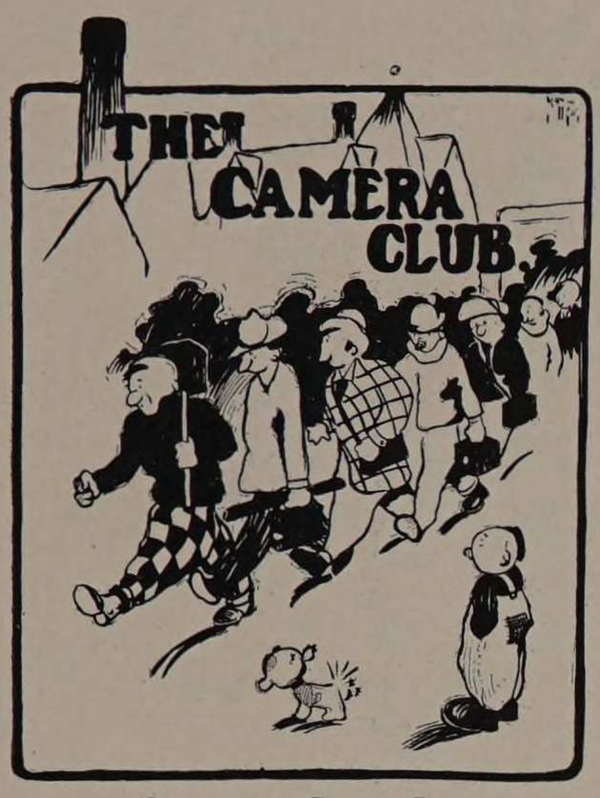
A fellow back homeward
Wending his way.
A postal next morning.
What did Kilgore say?

BACK OF ABOVE POSTAL



Pet Sayings of a Few Juniors

"Holy Cow!"	Jones (E. W.)
"What d'ye know about that?"	Smith (L. B.)
"Followin' me?"	"Jones L."
"You and me both"	Clark
"Isn't that what I said?"	Eustice
"Got the Math?"	Wolfe
"The K will take care of that?"	Nichols
"Where's my slide rule?"	Banning



OUT FOR SNAP SHOTS

The Electrical View-Point

Wolfe: "How is Creamer going to run the new steam hammer?"

Sigwalt: "Why, in series with the old one, of course."

A Matter of Distinction

Mr. Agle: "Now, *boys* (speaking to the Juniors), we'll see how many Senior *men* will be in the shop.

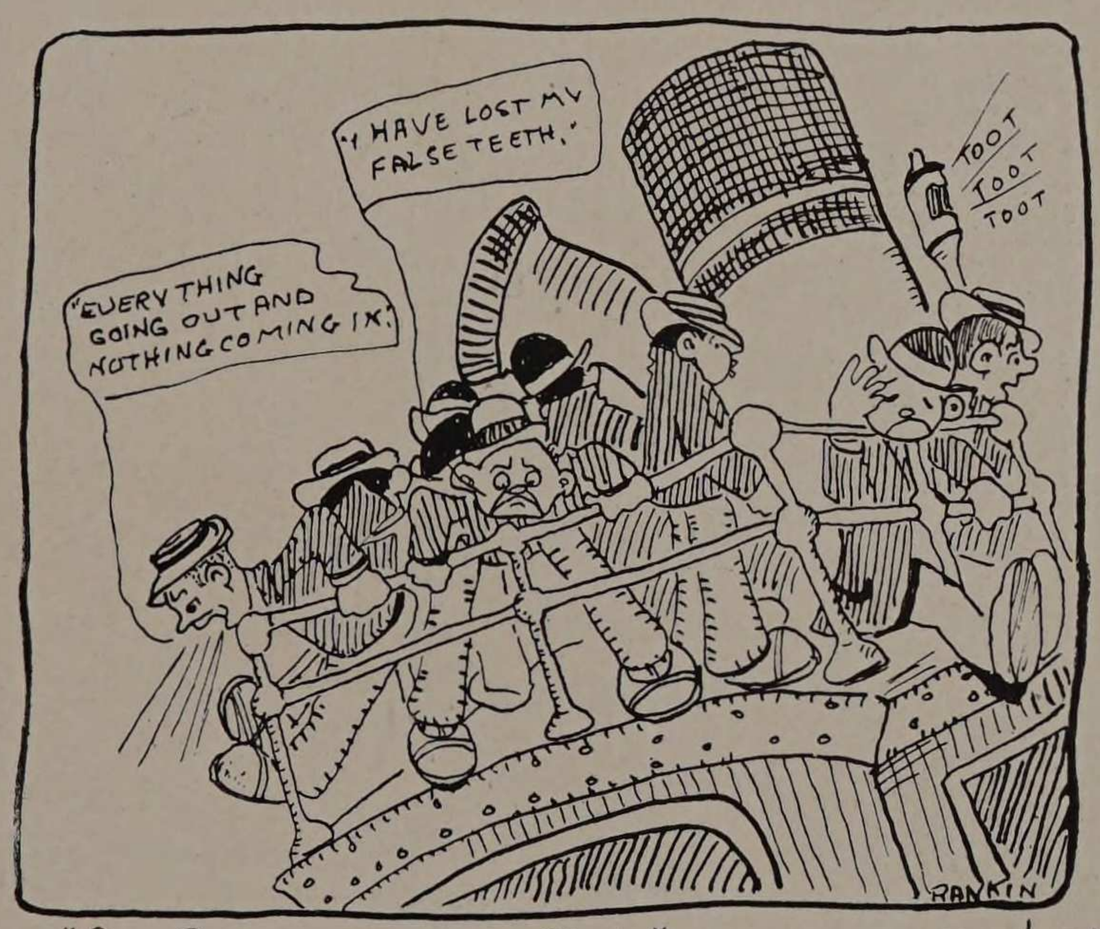
Another One

Mr. Agle (calling the roll): "Banning, Jones, E. W., Jones, L., Stagg, *Mr.* Henning."

To the Memory
of the
"AT"
which was between the
American School of Correspondence
and
Armour Institute of Technology

It Came into Our Midst in The Spring of 1903 A. D. and Left Us on March 1st, 1906—Having Long Suffered in the Minds of All *Armour* Men.

May Its Ashes Rest In Peace.



"Six for-a-Quarter Club" go across the Lake.

Associate Faculty



H. G. CLASEN

The Professor of General Information.
The Big Noise of the Night School.

Potter's School for Bashful Bachelors, '04.
Kappa Nu Pi.
Matrimonial Research culminating in membership in Married Men's Protective Union, 1905.

C. R. HAMMER

The Assistant to the Registrar.
The Custodian of the Locker Keys.

Cashman's College of Sweet Suavity, '99. B. S.
Inventor of "Hammer's Method of Multiplying on the Burrough's Adder."
Author of "Hammer's Hints for a Hartman Home and How to Habitate."

J. W. HOWARD

The Associate Professor of General Information.
The Magistrate of the Mail Box.

Pottawattamie High School Business Course, '04.
Chicago Institute of Catalogue Folders and Stamp Pounders. A. M., P. M.
Board of Directors, Illinois Steel Co.

R. S. MARTIN

The Professor of Cash Sales.
The Counter of the Thumb Tacks.

First Prize, Mellin's Food Boy Contest, Philadelphia, '84.
Cohen's School of Monotony, '92, Phi Karra Rappa, B. S. in Botany of Button-holes.

STATISTICS



Eleanor M. Hillman.

Institute Calendar

1905

Spring Term

April 3	Monday	. .	Registration Day.
April 3	Monday	. .	Evening Classes Begin.
April 4	Tuesday	. .	Spring Term Begins.
May 30	Tuesday	. .	Memorial Day, a Holiday.
June 9	Friday	. .	Evening Classes End.
June 15	Thursday	. .	Commencement Exercises.
June 16	Friday	. .	College Year Ends.

Summer Term

June 19	Monday	. .	College and Academy Entrance Examinations.
June 26	Monday	. .	Summer Courses Begin.
August 4	Friday	. .	Summer Courses End.
July 4	Tuesday	. .	Independence Day, a Holiday.

Autumn Term

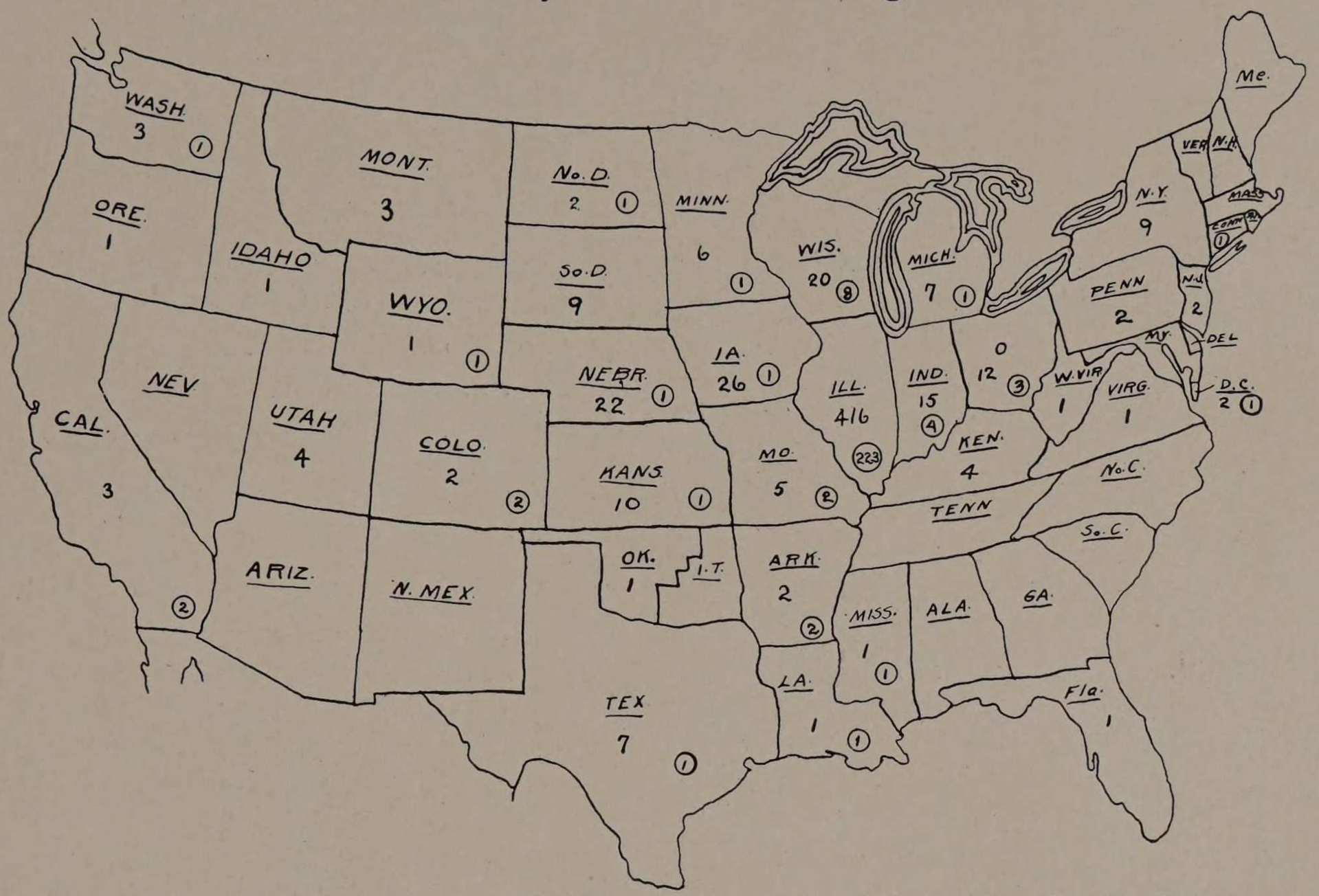
September 7	Thursday	. .	College and Academy Entrance Examinations.
September 18	Monday	. .	Registration Day.
September 19	Tuesday	. .	College Year Begins.
October 2	Monday	. .	Evening Classes Begin.
November 23-24	Thursday and Friday		Thanksgiving Holidays.
December 8	Friday	. .	Evening Classes End.
December 15	Friday	. .	Autumn Term Ends.

1906

Winter Term

January 2	Tuesday	. .	Registration Day.
January 3	Wednesday	. .	Winter Term Begins.
January 8	Monday	. .	Evening Classes Begin.
February 22	Thursday	. .	Washington's Birthday, a Holiday.
March 16	Friday	. .	Evening Classes End.
March 23	Friday	. .	Winter Term Ends.

Residence *of* Undergraduates



Note: College Students indicated by plain figures, Academy Students by figures enclosed in circles.

College Students

Foreign Countries

Canada	2	Italy	1
Germany	2	West Indies	1
Russia	2	China	1
Sweden	1	New Zealand	2
Syria	1	Hawaiian Islands	1

Ten Foreign Countries represented by 14 students.
Thirty-three States of the U. S. represented by 602 students.
Total in the College, 616 students.

Academy Students

Foreign Countries

New Zealand	1	Sweden	1
Canada	1	Philippine Islands	2

Four Foreign Countries represented by 5 students.
Twenty-one States of the U. S. represented by 259 students.
Total in the Scientific Academy, 264 students.

Summary *of* Attendance
For 1905-06

Students in College

	Freshmen.	Sophomores.	Juniors.	Seniors.	Total
M. E.	46	28	27	21	122
E. E.	88	53	36	21	198
T. E.	3	2	...	...	5
C. E.	54	41	25	16	56
Ch. E.	19	14	15	8	136
F. P. E.	3	5	5	5	18
Gen. Sc.	3	...	...	...	3
Arch. (4 yr.)	9	12	...	4	25
" (2 yr.)	15	10	...	...	25
Special.	...	...	...	...	27
Totals	240	165	108	75	615

Students in Academy

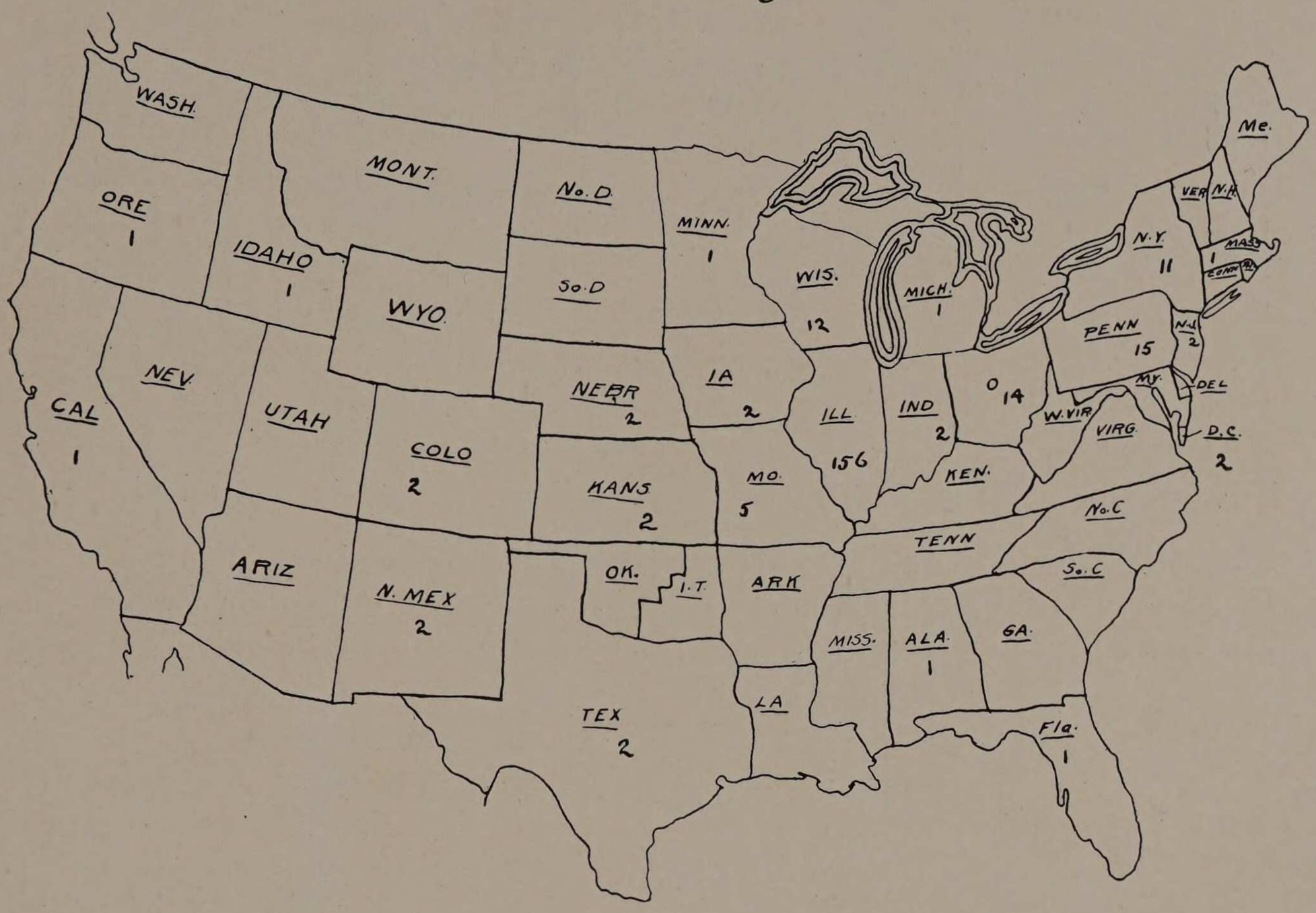
1st Year—72; 2nd Year—86; 3rd Year—94; Special—11; Total—263.

Students in College	615
Students in Academy	263
Students in Evening Classes	550
Students in Summer School	206
Total	1634
Deduct Names Counted Twice	25
Net Total	1609

Summary *of* Instructional Staff

	1904-05.	1905-06.
Professors	12	14
Associate Professors	8	12
Assistant Professors	8	4
Instructors	27	30
Assistants	19	24
Lecturers	21	17
Total	95	101

Geographical Distribution of Graduates of College



Foreign Countries

Austria	1
Canada	1
Japan	1
Mexico	1

Four graduates located in four foreign countries.

Two hundred and thirty-nine graduates located in twenty-three states in the U. S.

Summary

In the United States	239
In Foreign Countries	4
Unreported	8
Deceased	6
Total	257

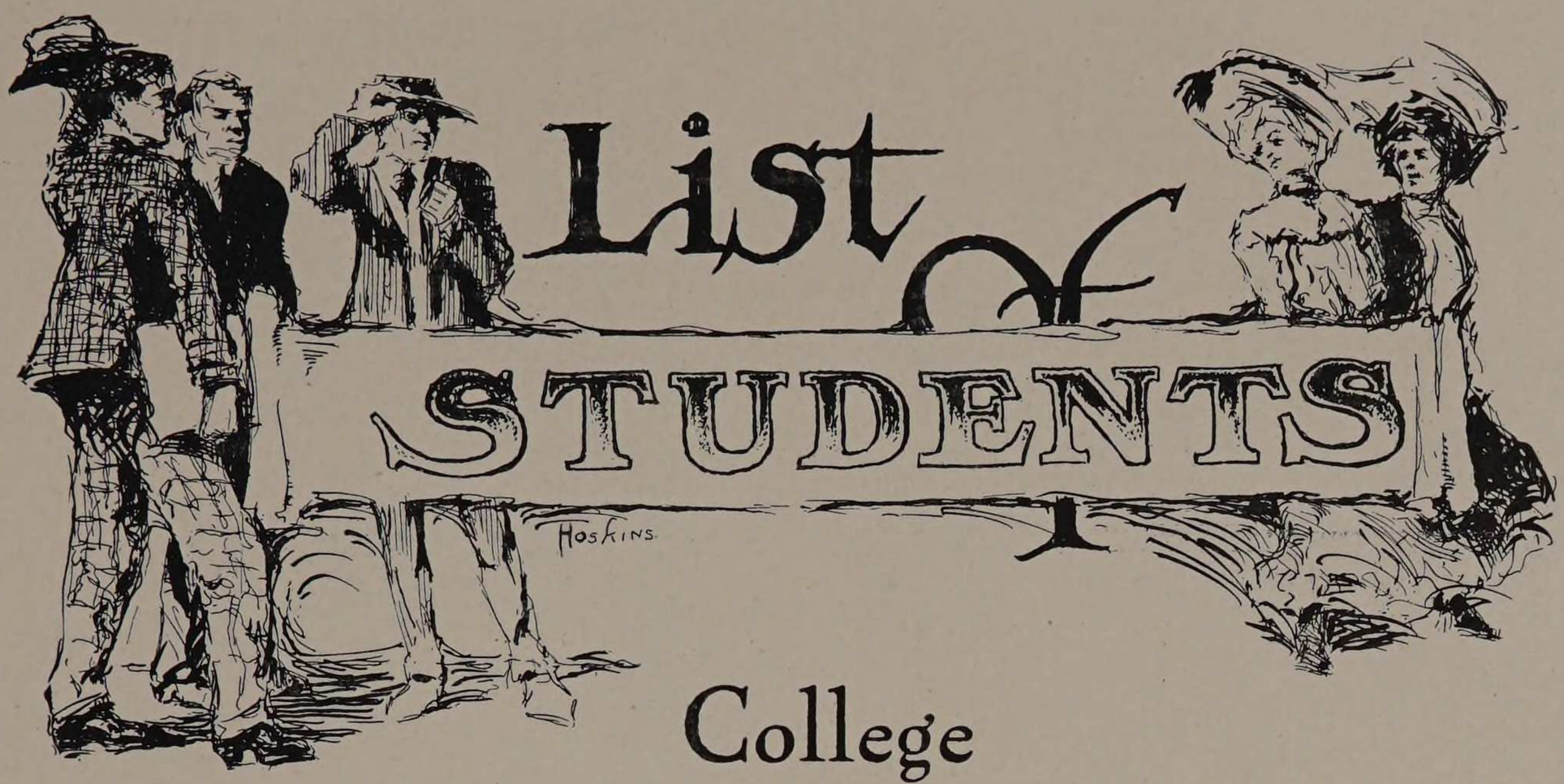
Summary of Graduates of the College

Class	M. E.	E. E.	C. E.	Ch. E.	F. P. E.	Arch. (4 yr.)	Arch. (2 yr.)	Total
1897	5	16	—	—	—	—	—	21
1898	1	14	—	—	—	2	—	17
1899	12	20	—	—	—	3	—	35
1900	3	15	1	—	—	—	1	20
1901	4	13	—	1	—	—	—	18
1902	9	17	2	2	—	2	—	32
1903	8	15	6	2	—	—	—	31
1904	11	14	5	2	—	1	—	33
1905	13	23	8	5	—	1	—	50
Total	66	147	22	12	0	9	1	257

M. E.—Mechanical Engineering.
E. E.—Electrical Engineering.
C. E.—Civil Engineering.
Ch. E.—Chemical Engineering.
F. P. E.—Fire Protection Engineering.
Arch.—Architecture.

Summary of Registration

Year	Number Registered	Number Graduated	Percentage of those who entered that graduated with same class
1893	252	—	—
1894	111	—	—
1895	154	—	—
1896	158	—	—
1897	144	21	—
1898	134	17	—
1899	178	35	—
1900	228	20	—
1901	353	18	50.
1902	422	32	80.
1903	493	31	69.
1904	591	33	39.
1905	616	50	40.1
	Total 3834	Total 257	Average 55.6



College

Name	Course	Year	Address
Adams, E. W.	E. E.	'08	1262 Columbus Road, Washington, D. C.
Ahern, John F.	E. E.	9	42 Chicago Ave., Kankakee, Ill.
Allen, Orrin T.	C. E.	6	Belle Plain, Iowa.
Alling, Claude R.	F. P. E.	7	1315 Benson Ave., Evanston, Ill.
Allyn, Arthur J.	E. E.	6	373 Oakwood Blvd., Chicago.
Anderson, Arthur E.	C. E.	9	Route No. 2, Goodhue, Minn.
Anderson, Arthur G.	C. E.	9	428 34th St., Chicago.
Anderson, Arthur R.	M. E.	9	138 Prospect St., Jamestown, N. J.
Anderson, H. C.	C. E.	8	Martin, Mich.
Anderson, M. J.	E. E.	8	Hartford, Mich.
Andrews, Ellis C.	Ch. E.	8	3549 Prairie Ave., Chicago.
Anneke, M. C.	Arch.	9	523 E. 2nd St., Duluth, Minn.
Aronian, Zareh A.	E. E.	9	Smyrna, Turkey, Asia.
Arthur, Ray	E. E.	8	202 South Park St., Streator, Ill.
Aurelius, Samuel J.	Ch. E.	9	4 104th St., Pullman, Ill.
Axt, William L.	Sp.	Sp.	1723 Wabash Ave., Chicago.
Babcock, Fred H.	Arch.	8	444 E. 62nd St. Chicago.
Badger, H. Ralph	E. E.	7	"The Snowdon," Syracuse, N. Y.
Badger, L. H.	C. E.	7	Niles, Mich.
Baker, Charles	E. E.	6	1811 Garfield Blvd., Chicago.
Baldauf, A. J.	E. E.	9	Oskaloosa, Iowa.
Ballagh, J. Courtenay	Ch. E.	9	503 The Angelus Bldg., Chicago.
Ballard, E. L.	F. P. E.	6	Wayne, Dupage County, Ill.
Banning, T. A.	E. E.	7	"The Gables," Wheaton, Ill.
Barnett, Ferdinand Lee, Jr.	M. E.	7	3234 Rhodes Ave., Chicago.
Barrett, D. O.	M. E.	8	61 Douglas Place, Chicago.
Barry, John C.	M. E.	9	802 Mulberry St., Muscatine, Iowa.
Bassett, John B.	E. E.	9	4425 Ellis Ave., Chicago.
Beaty, E. Mark	E. E.	8	Blair, Neb.
Beckman, Herman E.	M. E.	9	Naperville, Ill.
Beifeld, E. L.	Ch. E.	9	3304 Calumet Ave., Chicago.
Benson, O. R.	E. E.	9	Girard, Kas.
Bent, H. D.	E. E.	9	1725 York Place, Chicago.
Berger, L. T.	Arch.	8	2231 Calumet Ave., Chicago.
Berry, Frank A.	C. E.	8	6406 Jefferson Ave., Chicago.
Bexton, Louis	E. E.	9	405 S. 25th Ave., Omaha, Neb.
Binder, G. A.	Tel. E.	8	Earlville, Ill.
Birchard, Ralph	Ch. E.	9	2701 Davenport St., Omaha, Neb.
Blackford, J. O.	M. E.	9	202 Short St., Beloit, Wis.
Blackford, Neal A.	E. E.	9	3634 Ellis Park, Chicago.
Bliss, Harold D.	E. E.	8	6208 Jefferson Ave., Chicago.
Blumenthal, Ed. A.	E. E.	7	301 Mohawk St., Chicago.
Boblett, K. M.	M. E.	8	Forgy, Ohio.
Boehmer, Alex. H.	M. E.	7	Wheeling, Ill.
Bolander, Phillip A.	E. E.	9	33 Oak Place, Chicago.
Bolte, Edward E.	M. E.	9	3757 Ellis Ave., Chicago.
Botteron, Clarence I.	Arch.	8	Route No. 1, New Haven, Ind.
Boughton, N. J.	M. E.	8	Plainfield, Ill.

COLLEGE—Continued

Name	Course	Year	Address
Bouslough, Robert W.	E. E.	9	283 Walnut St., Aurora, Ill.
Bowman, Carl	Arch.	8	188 Milton Ave., Chicago.
Bremer, Harry A.	E. E.	6	Paxton, Ill.
Bremers, H. J., Jr.	E. E.	8	1260 E. 5th St., Fremont, Neb.
Brock, W. L.	M. E.	6	547 W. 102nd Place, Chicago.
Brcline, O. L.	Arch.	8	Wausa, Neb.
Brooke, Walter E.	E. E.	8	609 Scott Bldg., Salt Lake City, Utah.
Brownlie, J. Roy	F. P. E.	9	1 Douglas Court, Davenport, Iowa.
Brubaker, Wm. C.	M. E.	6	6542 Ellis Ave., Chicago.
Buchanan, Byron B.	M. E.	7	3607 Ellis Park, Chicago.
Buckett, Arthur C.	Arch.	9	5333 Indiana Ave., Chicago.
Buehler, Martin A., Jr.	E. E.	8	2306 Cottage Grove Ave., Chicago.
Buell, Roy D.	M. E.	8	93 33rd St., Chicago.
Buhman, G. G.	C. E.	8	1834 Oakdale Ave., Chicago.
Bunge, Louis F.	M. E	9	144 Park Ave., Chicago.
Bunker, Ralph	Arch.	9	Sabetha, Kas.
Burkholder, Fred L.	C. E.	7	265 Shady Ave., Pittsburg, Pa.
Burstrom, Steven	E. E.	9	Albion, Idaho.
Busse, Clayton F.	E. E.	7	812 Barry Ave., Chicago.
Campbell, C. L.	C. E.	6	Carbondale, Ill.
Campbell, E. E.	E. E.	7	Tolar, Texas.
Carr, Alva L.	M. E.	6	3009 S. Halsted St., Chicago.
Carroll, Wm.	E. E.	9	291 65th Place, Chicago.
Cerny, James	C. E.	8	1393 W. 22nd St., Chicago.
Chamberlain, Earl W.	C. E.	9	348 39th St., Chicago.
Chamberlin, J. P.	M. E.	8	214 N. Central Ave., Austin, Ill.
Chambers, F. A.	M. E.	7	5449 Woodlawn Ave., Chicago.
Chambers, Guy A.	E. E.	9	Repcngaere, Gisborne, New Zealand.
Chambers, H. C.	Arch.	9	Montpelier, Ind.
Chan, Yoke H.	M. E.	7	238 Evanston Ave., Chicago.
Chandler, Fred E.	E. E.	7	Dixcn, Ill.
Chatain, Paul E.	Ch. E.	8	4538 Lake Ave., Chicago.
Clarke, Fred	E. E.	7	1532 Dakin St., Chicago.
Clucas, George W.	M. E.	6	720 W. 12th St., Pueblo, Colc.
Cohen, Bernard M.	Tel. E.	9	451 S. Canal St., Chicago.
Collins, F. C.	E. E.	8	428 Summerdale Ave., Chicago.
Collins, Wm. R.	Ch. E.	6	370 E. 40th St., Chicago.
Conlin, Wm. F.	M. E.	9	3533 S. Hermitage Ave., Chicago.
Ccnverse, W. I.	C. E.	8	39 Bryan Place, Chicago.
Cook, Norman W.	Arch.	6	Ottawa, Ill.
Copenhaver, H. K.	C. E.	7	6338 Harvard Ave., Chicago.
Cornwell, A. B.	E. E.	8	Cornwell, Miss.
Crabbs, Austin	M. E.	8	6805 Union Ave., Chicago.
Crane, Edwin B.	E. E.	9	3708 Lake Ave., Chicago.
Cross, Harry H.	Sp.	Sp.	Fultonville, N. Y.
Currier, C. Lawrence	C. E.	9	323 Amhurst St., Buffalc, N. Y.
Curtis, H. S.	E. E.	9	Stratford, New Zealand.
Cutler, E. W.	E. E.	6	6409 Harvard Ave., Chicago.
Dalton, Raymond	E. E.	9	3833 Ellis Ave., Chicagc.
Darling, J. T.	E. E.	8	Mechanicsburg, O.
Davies, Howard C.	M. E.	7	326 E. 41st St., Chicago.
Davis, Augustine, Jr.	M. E.	6	625 W. 78th St., Chicago.
Davis, Charles G.	Arch.	9	4115 Indiana Ave., Chicago.
Dawson, Manierre	C. E.	9	100 E. 24th St., Chicago.
Dean, Stanley	C. E.	6	3624½ Forest Ave., Chicago.
Dekker, Harry G.	M. E.	9	10816 Wabash Ave., Chicago.
Deming, E. G.	E. E.	6	1628 Kenmore Ave., Chicago.
Dennis, C.	E. E.	9	714 Fullerton Ave., Chicago.
Deveney, Wm. J.	C. E.	9	3336 Wabash Ave., Chicago.
Devereaux, Ray	C. E.	9	73 E. 25th St., Chicago.
Deverman, Arthur	E. E.	9	923 Tcuhy Ave., Chicago.
Dick, Donald D.	E. E.	9	Crab Orchard, Ky.
Dicks, Elmer R.	E. E.	9	3157 Forest Ave., Chicago.
Dittmar, A. A.	C. E.	8	2337 Wentworth Ave., Chicago.
Douthitt, Merton	C. E.	8	3626 5th Ave., Chicago.
Dowdell, Charles	C. E.	7	6044 S. Peoria St., Chicago.
Downton, Percival	E. E.	9	6942 Eggleston Ave., Chicago.
Doyle, Horace F.	M. E.	8	215 E. 66th Place, Chicago.
Dreffein, C. G.	M. E.	7	217 S. Lombard Ave., Oak Park, Ill.
Dunbar, Wm., Jr.	E. E.	8	605 Winnemac Ave., Chicago.
Dunham, Joseph L.	E. E.	9	634 W. 62nd St., Chicago.

COLLEGE—Continued

Name	Course	Year	Address
Dunmore, Glenn B.	M. E.	7	West Chicago, Ill.
Durand, Fred A.	E. E.	9	958 Foster Ave., Chicago.
Eaton, A. W., Jr.	C. E.	8	1336 Sheridan Road, Chicago.
Ebert, Alfred A.	C. E.	9	2137 N. Paulina St., Chicago.
Ebner, Alfred J.	M. E.	8	2020 Harvard St., Chicago.
Ecklund, C. A.	C. E.	9	79 E. 35th St., Chicago.
Edson, Norman L.	M. E.	6	Cedar Rapids, Iowa.
Edwards, Willard H.	C. E.	9	Hinsdale, Ill.
Ehretsman, J. L.	M. E.	7	Pullman, Ill.
Ehrlich, George	E. E.	9	2218 N. Ashland Ave., Chicago.
Elkin, Maurice	Ch. E.	6	4320 Vincennes Ave., Chicago.
Ellett, A. M.	M. E.	9	Chillicothe, Mo.
Ellett, Edwin H.	C. E.	7	3767 Ellis Ave., Chicago.
Ellingtcn, Harold S.	C. E.	8	9631 Winchester Ave., Chicago.
Enander, Einar	M. E.	6	55 Oak Place, Chicago.
Ephgrave, Herbert	C. E.	9	3817 Vernon Ave., Chicago.
Ericsson, Walter H.	Arch.	9	416 Center St., Chicago.
Ettinson, Isidore Z.	Ch. E.	8	5323 Prairie Ave., Chicago.
Eustice, Alfred L.	E. E.	7	513 Park Ave., Galena, Ill.
Evans, R. T.	M. E.	9	254 E. 61st St., Chicago.
Evans, T. E.	E. E.	9	Marion, Iowa.
Eyers, Walter	F. P. E.	8	Neguanee, Mich.
Farley, Dean	Sp.	Sp.	2469 Kenmore Ave., Chicago.
Fey, Wealth y E.	E. E.	9	1082 W. Harrison St., Chicago.
Fisher, Arthur W.	M. E.	9	745 E. 51st St., Chicago.
Fitch, J. E.	E. E.	9	653 Winona St., Chicago.
Flanagan, F. J., Jr.	C. E.	6	5330 Union Ave., Chicago.
Flodin, R. C.	C. E.	8	1628 Briar Place, Chicago.
Flood, Walter H.	Ch. E.	6	3121 Vernon Ave., Chicago.
Focht, Ralph G.	M. E.	6	Lockport, Ill.
Forbes, E. R.	E. E.	9	Stranger, Texas.
Ford, Frank E., Jr.	M. E.	9	9828 Winston Ave., Chicago.
Ford T. Cecil	E. E.	9	Pulaski, Ind.
Ford, Tenney S.	C. E.	6	1326 W. Adams St., Chicago.
Foster, Samuel T.	Tel. E.	8	5736 Drexel Ave., Chicago.
France, Roy F.	Arch.	9	1050 Evanston Ave., Chicago.
Francis, A. L.	M. E.	8	6448 Lexington Ave., Chicago.
Frary, C. O.	C. E.	8	7112 Eggleston Ave., Chicago.
Freund, Erwin	M. E.	9	4416 Michigan Ave., Chicago.
Friedlander, L.	M. E.	8	515 44th Place, Chicago.
Friedman, E. M.	M. E.	8	4120 Berkely Ave., Chicago.
Frisbie, Henry C.	M. E.	9	941 Pratt Ave., Chicago.
Fry, A. Y.	E. E.	6	182 Oak St., Chicago.
Fry, Will L.	M. E.	9	5121 Kimbark Ave., Chicago.
Furry, William	M. E.	7	698 E. 49th St., Chicago.
Gaylor, Wm. S.	M. E.	6	412 Home Ave., Oak Park, Ill.
Geist, Arthur G.	Ch. E.	7	3746 Wabash Ave., Chicago.
Gill, Harry G.	C. E.	9	917 W. 65th St., Chicago.
Gillette, Edwin F.	Arch.	6	26 Delaware Place, Chicago.
Gilmore, Millard	E. E.	7	7210 Woodlawn Ave., Chicago.
Glaspell, Bernard	E. E.	9	Jamestown, N. D.
Glos, Harold V.	M. E.	8	Wayne, Ill.
Gordon, A. R.	C. E.	9	Kenilworth, Ill.
Gould, Chas. J.	M. E.	9	Whitewater, Wis.
Gould, J. J.	Sp.	Sp.	15409 Locmis Ave., Harvey, Ill.
Graham, Fred	E. E.	9	Falls City, Neb.
Grant, Roy G.	E. E.	7	Nashua, Iowa.
Grassby, G. A., Jr.	M. E.	9	3421 State St., Chicago.
Green, M. J.	Arch.	8	Randall, Kas.
Greenebaum, Sam	Arch.	9	Newton, Kas.
Greifenhagen, E. O.	C. E.	6	1911 Deming Place, Chicago.
Grenoble, H. S.	E. E.	8	4312 Champlain Ave., Chicago.
Guerin, James	C. E.	8	3958 Ellis Ave., Chicago.
Guthrie, J. F.	Ch. E.	9	1613 Prairie Ave., Chicago.
Hackett, Jas. L.	C. E.	7	1518 Michigan Ave., Chicago.
Hagelin, J. R.	C. E.	9	Jamestown, N. Y.
Hagerup, L. O.	Arch.	9	212 Townsend St., Chicago.
Hail, Joseph	E. E.	7	174 S. Peoria St., Chicago.
Haines, C. S.	Sp.	Sp.	Decoto, Cal.
Hall, A. G.	E. E.	9	Kenilworth, Ill.
Hamilton, E. B.	E. E.	9	Elgin, Ill.

COLLEGE—Continued

Name	Course	Year	Address
Hammond, Edward	C. E.	9	9620 Hoyne Ave., Longwood, Ill.
Hansen, Chris	Arch.	8	Salt Lake City, Utah.
Harger, Kendrick	C. E.	8	304 49th St., Chicago.
Harrington, Philip	E. E.	6	4159 Western Blvd., Chicago.
Harvey, Jas., Jr.,	C. E.	9	269 W. Adams St., Chicago.
Hayden, Albert, Jr.	C. E.	7	3155 Michigan Ave., Chicago.
Hayden, Julian	C. E.	7	3155 Michigan Ave., Chicago.
Hayden, W. Earle	E. E.	9	Texarkana, Ark.
Hayes, C. E.	M. E.	6	Red Oak, Iowa.
Heath, C. S.	Ch. E.	7	28 N. Oakley Ave., Chicago.
Hebard, W. F.	C. E.	7	7526 Eggleston Ave., Chicago.
Heidenreich, Walter L.	C. E.	8	6601 Kimbark Ave., Chicago.
Heim, Karl	E. E.	9	3241 N. Paulina St., Chicago.
Heinson, G. M.	C. E.	7	8926 Exchange Ave., South Chicago.
Henderson, E. L.	Ch. E.	9	1698 Wellington Ave., Chicago.
Henning, Chas. S.	E. E.	7	620 W. 66th St., Chicago.
Hepp, Arnold A.	F. P. E.	6	864 Armitage Ave., Chicago.
Heuchling, Fred G.	Ch. E.	7	153 Evanston Ave., Chicago.
Hewitt, Chas. E.	Arch.	Sp.	162 Van Buren St., Chicago.
Higgins, Bert F.	Sp.	Sp.	Spokane, Wash.
Hiller, Eugene F	C. E.	6	3844 Lake Ave., Chicago.
Hirschfeld, Geo.	E. E.	9	9838 Avenue L, South Chicago.
Hoffman, Balthasar	Ch. E.	7	3331 Armour Ave., Chicago.
Hoffman, Balthasar, Jr.	M. E.	7	3323 Highland Blvd., Milwaukee, Wis.
Holcombe, Chas. S.	C. E.	6	Hinsdale, Ill.
Holmberg, Edgar T.	Ch. E.	8	Jamestown, N. Y.
Holmboe, Ralph	C. E.	8	6107 Madison Ave., Chicago.
Holmes, W. E.	M. E.	8	6447 Monroe Ave., Chicago.
Hooper, Blake C.	M. E.	7	261 E. 61st St., Chicago.
Hotchkin, Everett W.	E. E.	8	127 N. 51st Court, Chicago.
Hotchkiss, Chas. C.	Ch. E.	6	467 W. Monroe St., Chicago.
Hough, Harold R.	C. E.	9	4560 Michigan Ave., Chicago.
Hough, Walter B.	C. E.	7	5943 Michigan Ave., Chicago.
Houghton, Earle W.	M. E.	8	5119 Michigan Ave., Chicago.
Houghton, Vaughan A.	M. E.	6	141 N. Park Ave., Austin, Chicago.
Howard, R. V.	E. E.	8	3315 Rhodes Ave., Chicago.
Howard, Wm. A.	Ch. E.	9	10133 Avenue L, Chicago.
Howell, Ivan	C. E.	9	5822 Ingleside Ave., Chicago.
Hughes, Fred [illegible].	Arch.	9	310 E. 6th St., Dayton, Ohio.
Hurd, Chas. G.	M. E.	8	5015 Calumet Ave. Chicago.
Hyatt, Harry H.	Sp.	Sp.	Toledo, Ohio.
Ivison, Geo. E.	C. E	9	139 Gladys Ave., Chicago.
Jackson, Irving F.	E. E.	7	Holywood, Cal.
Jacobson, Albert	C E.	9	702 Clifton Ave., Chicago.
Jacobson, Jos. H.	E. E.	8	4461 Ellis Ave., Chicago.
Jaeger, Neil M.	E. E.	8	Zillah, Wash.
James, Sydney V.	M. E.	7	3259 Groveland Ave., Chicago
Jaquet, Geo. E.	E. E.	8	Falls City, Neb.
Johnson, A. R.	E. E.	8	Sioux Falls, S. D.
Johnson, Carl O.	C. E.	6	120 Sedgwick St., Chicago.
Johnson, J. Carroll	Arch.	6	227 29th St., Chicago.
Johnson, Rudolph W.	C. E.	9	1111 George St., Chicago.
Johnston, C. A. P.	E. E.	9	Taylor, N. D.
Jones, Chas. H.	E. E.	9	629 N. Campbell Ave., Chicago.
Jones, Earl W.	E. E.	7	Pratt, Kas.
Jones, H. W.	Ch. E.	7	Mabel, Minn.
Jones, John Alfred	Arch.	9	9123 Erie Ave., Chicago.
Jones, L. B.	E. E.	7	Pratt, Kas.
Jones, M. T.	Ch. E.	8	East Orange, N. J.
Jorgensen, Adolph	C. E.	7	1024 N. 42nd Ave., Chicago.
Kahn, Lamos	E. E.	9	8405 Buffalo Ave., South Chicago, Ill.
Kalbach, Lee	Ch. E.	9	Oskaloosa, Iowa.
Kalter, W. I.	Arch.	8	519 E. Wenger St., South Bend, Ind.
Kate, Charles R.	M. E.	9	Wayne, Neb.
Kauffman, Jesse S.	E. E.	8	De Graff, Ohio.
Kean, G. P.	C. E.	8	1815 Chicago Ave., Evanston, Ill.
Keeth, Grover	M. E.	6	Cripple Creek, Colo.
Kelkenney, A. A.	E. E.	7	601 E. 21st St., Cheyenne, Wyo.
Kewley, R. E.	Ch. E.	8	3115 Wabash Ave., Chicago.
Kilgore, C. E.	M. E.	7	533 Englewood Ave., Chicago.

COLLEGE—Continued

Name	Course	Year	Address
Kimball, R. W.	M. E.	6	618 Clinton St., Joliet, Ill.
Kinzel, A. J., Jr.	M. E.	9	217 Sunnyside Ave., Chicago.
Kizer, L. P.	M. E.	9	Hammond, Ill.
Klapper, Chas.	E. E.	6	292 S. Center Ave., Chicago.
Klein, Samuel	C. E.	6	667 N. Western Ave., Chicago.
Klooz, Elmer G.	Ch. E.	8	48 Graymont St., Cleveland, Ohio.
Kramer, Robert	G. S.	9	Madison, South Dakota.
Krill, Henry	M. E.	9	596 North Ave., Aurora, Ill.
Krum, Howard L.	E. E.	6	5135 Hibbard Ave., Chicago.
Kubitz, Alfred L.	E. E.	7	544 Forest Ave., Oak Park, Ill.
Kuhn, George W.	E. E.	6	2127 Archer Ave., Chicago.
Lane, John M.	E. E.	8	4432 Indiana Ave., Chicago
Langstaff, Chas. R.	E. E.	8	Blair, Neb.
Larson, Reuben L.	C. E.	8	535 Melrose St., Chicago.
Laubach, George S.	C. E.	7	3319 S. 20th St., Omaha, Neb.
Laurence, V. E.	E. E.	8	Paxton, Ill.
Layer, R. W.	Arch.	6	1327 Millard Ave., Chicago.
Lee, H. V.	Arch.	8	130 S. Taylor St., South Bend, Ind.
Leinenger, W. G.	C. E.	6	3336 Dearborn St., Chicago.
Lemmon, R. H.	E. E.	9	220 S. Main St., Nevada, Mo.
Lemmon de, Hugo	Ch. E	8	3536 Western Ave., Chicago.
Lesage, Harold S.	C. E.	9	321 41st St., Chicago.
Lessel, Ralph	E. E.	9	Perry, Iowa.
Letterman, G. D.	M. E.	9	3342 Dearborn St., Chicago.
Levitan, Sam	E. E.	9	428 S. Morgan St., Chicago.
Lewis, Ray L.	E. E.	8	522 Church St., Evanston, Ill.
Leyden, Thos. J.	C. E.	8	2958 S. Loomis St., Chicago.
Lichtner, W. O.	C. E.	7	6633 Yale Ave., Chicago.
Liebermann, E.	C. E.	6	5613 Prairie Ave., Chicago.
Light, H. W.	Sp.	Sp.	Sault Ste. Marie, Ontario, Can.
Lindsay, C. M.	E. E.	9	1516 Douglas St., Omaha, Neb.
Livermore, Geo. R.	Arch.	8	201 E. Mifflin St., Madison, Wis.
Lockwood, W. C.	E. E.	9	5111 Wabash Ave., Chicago.
Loeb, S. Arthur	E. E.	9	701 1st St., Jackson, Mich.
Loofbourrow J. D.	M. E.	8	Fairfield, Iowa.
Loring, Ernest M.	C. E.	9	5030 Washington Ave., Chicago.
Lunak, Sidney E.	F. P. E.	8	658 Loomis St., Chicago.
Lurvey, Dave	E. E.	7	273 Blue Island Ave., Chicago.
McAuley, Benjamin F.	M. E.	9	269 S. Lincoln St., Chicago.
McCrackin, Wallace	E. E.	6	Hamilton, Montana.
McEldonney, George R.	Arch.	8	6542 Perry Ave., Chicago.
McElhiney, Lee	E. E.	9	Kenney, Ill.
McKarahan, E. V.	M. E.	9	Audubon, Iowa.
McKinney, Lloyd A.	E. E.	9	1036 Grone St., Jacksonville, Ill.
MacDonald, Malcolm S.	M. E.	7	1250 Washington Blvd., Chicago.
Mahler, Harry	M. E.	9	3255 Wabash Ave., Chicago.
Martin, Herbert W.	Ch. E.	8	3827 Forest Ave., Chicago.
Matchett, J. C.	M. E.	7	6940 Wentworth Ave., Chicago.
Mathews, George W.	E. E.	7	1514 Summit Ave., Sioux City, Iowa.
Mathews, J. F., Jr.	C. E.	7	4613 Champlain Ave., Chicago.
Matthay, Henry P. L.	C. E.	9	3830 State St., Chicago.
Matthei, H. R.	C. E.	8	1414 Rokeby St., Chicago.
Mattison, Lawrence C.	M. E.	9	625 Portland Ave., Beloit, Wis.
Mayes, Frank H.	M. E.	9	421 W. 75th St., Chicago.
Megahy, James	C. E.	7	39 Roebuck St., Bridgetown, Barbados, W. I.
Menkin, Jesse I.	G. S.	9	3436 Forest Ave., Chicago.
Metz, George P.	M. E.	9	160 Menominee St., Chicago.
Meyer, E. D.	E. E.	6	Hutchinson, Kas.
Meyer, Fred C.	C. E.	9	3312 Dearborn St., Chicago.
Meyer, Grover J.	C. E.	8	34 E. 29th Place, Chicago.
Meyer, Oscar C.	E. E.	8	3312 Dearborn St., Chicago.
Millard, Chancey S.	C. E.	7	2269 N. 42nd Court, Chicago.
Miller, Earl F.	Arch.	9	501 W. 6th St., Manitowoc, Wis.
Miller, Lindsay H.	E. E.	6	6000 Rhodes Ave., Chicago.
Monahan, Joseph	M. E.	8	3435 Wabash Ave., Chicago.
Moore, Clayton C.	Sp.	Sp.	4444 St. Lawrence Ave., Chicago.
Moran, C. E.	E. E.	6	519 N. Court St., Rockford, Ill.
Moreton, D. P.	E. E.	6	Moscow, Ohio.
Morey, Clive R.	E. E.	8	Hastings, Neb.
Morgan, W. C.	M. E.	8	3122 South Park Ave., Chicago.
Morrison, Ralph D.	M. E.	6	5007 Champlain Ave., Chicago.

COLLEGE—Continued

Name	Course	Year	Address
Mcrrison, Rudolph A.	E. E.	7	533 W. Taylor St., Chicago.
Mott, Harold	E. E.	8	2421 Indiana Ave., Chicago.
Moyses, Harry E.	E. E.	9	501 42nd Place, Chicago.
Mueller, Clarence W.	Ch. E.	9	1254 E. 57th St., Chicago.
Mulloy, George B.	M. E.	8	6912 Vernon Ave., Chicago.
Nadler, Herbert	M. E.	8	Peru, Ill.
Nelson, Alfred L.	Sp.	Sp.	1448 King Place, Chicago.
Nelson, C. J.	C. E.	7	Oakland, Neb.
Nelson, E. Dean, Jr.	E. E.	9	102 Gogebic St., Ironwood, Mich.
New, Matthew	Arch.	9	151 93rd St., Chicago.
Newman, O. R.	E. E.	8	Canadian, Texas,
Newman, Raymond M.	C. E.	9	Fremont, Neb.
Nichols, H. W.	E. E.	7	Nevada, Iowa.
Nicholson, Victor	Ch. E.	6	540 33rd St., Chicago.
Niestadt, Fred A.	C. E.	9	365 N. Hoyne Ave., Chicago.
Nitschke, Paul H.	C. E.	8	575 E. 26th St., Chicago.
Oberfelder, Walter	F. P. E.	9	4619 Ellis Ave., Chicago.
Oberg, M. Luther	C. E.	9	126 Colfax St., Jamestown, N. Y.
Ogle, Walter F.	C. E.	9	Jacksonville, Ill.
Olsen, Arthur	F. P. E.	7	6324 Rhodes Ave., Chicago.
Ostergren, Harry N.	E. E.	9	3265 Cottage Grove Ave., Chicago.
Ostergren, Rcbert	Arch.	8	Stockholm, Sweden.
Overstreet, R. M.	C. E.	9	120 Ontario St., Oak Park, Ill.
Packer, Chas. S.	C. E.	8	3361 Calumet Ave., Chicago.
Pacyna, Arnold	Ch. E.	7	3509 Wabash Ave., Chicago.
Pahlman, Paul J.	M. E.	7	343 E. 42nd St., Chicago.
Paradise, L. A.	M. E.	6	LaCrosse, Wis.
Parker, R. F. M.	Ch. E.	9	5000 Washington Ave., Chicago.
Parmele, W. B.	Arch.	8	82 Willow St., Minneapolis, Minn.
Parry, G. G., Jr.	M. E.	8	3333 Wabash Ave., Chicago.
Patrick, Wilbur	E. E.	8	600 E. 50th St., Chicago.
Paul, H. J.	E. E.	8	1414 Roscoe St., Chicago.
Payton, Frank	Arch.	9	1313 N. Logan Ave., Danville, Ill.
Perkins, R. A.	M. E.	7	Sioux Falls, South Dakota.
Perlstein, Benjamin	Ch. E.	7	419 La Salle St., Chicago.
Peters, William	E. E.	9	West Bend, Wis.
Peterson, Ivan	C. E.	9	1324 Osgood St., Chicago.
Pettibone, Ira F.	M. E.	8	3118 Vine St., Kansas City, Mo.
Petty, E. W.	E. E.	8	Canton, Ill.
Pierce, Frank T.	C. E.	6	4847 Grand Blvd., Chicago.
Pinkerton, E. M.	E. E.	9	Inland, Neb.
Pohlmann, E. F. C.	Ch. E.	9	3607 S. Seeley Ave., Chicago.
Pollak, Ernest	C. E.	8	1551 Michigan Ave., Chicago.
Pool, Ralph W.	Sp.	Sp.	Paxton, Ill.
Powell, E. W.	C. E.	8	1410 Addison Ave., Chicago.
Pratt, E. A.	C. E.	7	3435 Prairie Ave., Chicago.
Pratt, Harold S.	E. E.	9	303 Douglas Ave.. Elgin, Ill.
Preston, Harry F.	E. E.	9	Salt Lake City, Utah.
Prince, W. H.	E. E.	9	El Reno, Oklahoma.
Quackenbush, A. D.	E. E.	7	842 Pine Grove Ave., Chicago.
Quin, Hugh G. R.	Ch. E.	6	735 Winona St., Chicago.
Rahr, N.	M. E.	9	Manitowoc, Wis.
Rasmussen, E. H.	E. E.	8	812 S. 19th St., Omaha, Neb.
Rawn, Ira L.	C. E.	8	717 Grove Place, Toledo, Ohio.
Raymond, A. B.	E. E.	8	360 E. Erie St., Chicago.
Raymond, A. W.	M. E.	9	918 Jackson Blvd., Chicago.
Reed, Oliver R.	C. E.	6	188 Colorado Ave., Chicago
Reker, W. H.	E. E.	7	5124 Halsted St., Chicago.
Reynolds, Myron B.	C. E.	6	3314 Dearborn St., Chicago.
Reynolds, R. L.	C. E.	9	Harlan, Iowa.
Richards, T. E., Jr.	C. E.	9	6510 Madison Ave., Chicago.
Richards, W. A.	E. E.	9	2426 Indiana Ave., Chicago.
Richardson, J. R.	E. E.	8	1752 W. Balmoral Ave., Chicago.
Riker, A. C.	E. E.	9	Blair, Nebraska.
Riker, C. R.	E. E.	6	1511 S. Union Ave., Alliance, Ohio.
Ringler, Carl	E. E.	9	59 Station St., Chicago.
Robinson, F. H.	Ch. E.	7	62 So. View St., Aurora, Ill.
Rodgers, T. T.	Ch. E.	9	827 22nd Ave., Milwaukee, Wis.
Root, H. R.	C. E.	9	Kenilworth, Ill.
Rose, Herbert	E. E.	9	5732 Prairie Ave., Chicago.
Rosenberg, H. P.	E. E.	8	486 E. 42nd Place, Chicago.

COLLEGE—Continued

Name	Course	Year	Address
Rosenblatt, Arthur	Ch. E.	9	Oskaloosa, Iowa.
Ross, Lee R.	F. P. E.	6	Cedar Rapids, Iowa.
Roush, Leroy C.	F. P. E.	7	7411 Monroe Ave., Chicago.
Rowe, Hugh I.	E. E.	7	Hebron, Ill.
Ryan, H. H.	M. E.	9	9330 Longwood Ave., Chicago.
Ryan, J. P.	Ch. E.	9	5461 Monroe Ave., Chicago.
Ryan, Thomas	E. E.	9	Lockport, Ill.
Sackheim, Sol.	E. E.	9	398 W. Taylor St., Chicago.
Sackman, R. H.	E. E.	9	520 West Ave., Wilmette, Ill.
Sanders, W. J.	E. E.	7	23 Aldine Square, Chicago.
Sangdohl, A. E.	C. E.	9	7056 Parnell Ave., Chicago.
Saunders, J. E.	E. E.	7	Chillicothe, Ill.
Sawtell, H. J.	M. E.	6	6753 Wentworth Ave., Chicago.
Sawyer, J. E., Jr.	C. E.	8	472 E. 47th St., Chicago.
Schaedlich, Hans	E. E.	6	958 N. Clark St., Chicago.
Scharle, L. M.	C.	7	976 W. Harrison St., Chicago.
Schewel, A. M.	E. E.	9	206 12th St., Lynchburg, Va.
Schlinz, H. W.	C. E.	9	681 Lincoln Ave., Chicago.
Schmidt, Chas. W.	Arch.	8	3117 Prairie Ave., Chicago.
Schmidt, J. L.	F. P. E.	7	1222 N. Pennsylvania St., Indianapolis, Ind.
Schram, Irwin H.	C. E.	8	3426 Calumet Ave., Chicago.
Schueler, Wm.	E. E.	9	1014 7th St., LaSalle, Ill.
Schulze, C. E., Jr.	Arch.	8	1332 Humboldt Blvd., Chicago.
Schumacher, J. N.	Ch. E.	6	300 Sheffield Ave., Chicago.
Scott, F. J., Jr.	M. E.	9	602 W. 60th Place, Chicago.
Scott, P. J.	M. E.	6	Carroll, Iowa.
Seiler, R. A.	[illegible] E.	9	312 Webster Ave., Chicago.
Shedd, Milton C.	M. E.	9	409 Montana St., El Paso, Texas.
Sherman, R. T.	Ch. E.	8	276 Fremont St., Chicago.
Sigwalt, Elmer J.	E. E.	7	Wheeling, Ill.
Silberman, D.	Sp.	Sp.	3206 Vernon Ave., Chicago.
Simmons, L. E.	E. E.	8	456 N. Oak Park Ave., Oak Park, Ill.
Singer, S. C.	M. E.	7	407 So. 25th Ave., Omaha, Nebr.
Sleezer, F. W.	E. E.	7	Yorkville, Ill.
Smalley, J. S.	E. E.	7	Muscatine, Iowa.
Smith, C. U.	M. E	7	399 33rd St., Chicago.
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Smith, E. S.	Arch.	9	Missoula, Mont.
Smith, G. W.	E. E.	6	Whitewright, Texas.
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Walther, R. A.	C. E.	9	6436 Lowe Ave., Chicago.
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Watson, R. A.	E. E.	9	Salt Lake City, Utah.
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Wolters, F. C.	C. E.	9	121 E. 35th St., Chicago.
Wolters, Geo. F.	Arch.	8	2226 Seward St., Omaha, Nebr.
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Wuehrmann, W. G.	Arch.	8	5324 So. Ashland Ave., Chicago.
Young, A. G.	M. E.	9	South Germantown, Wis.
Young, I.	C. E.	9	Wailuku Main Territory, Hawaii.
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Yule, Clarence L.	Arch.	9	1220 Ridge Ave., Evanston, Ill.
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Ahern, Arthur
Almlof, W.
Anderson, Chas. M.
Anderson, L.
Arnold, H.
Assens, G. F.
Aymar, Jr.o. W.
Babcock, H. A.
Bartusck, J. J.
Basch, R. J.
Baum, H. A.
Bauman, H. W.
Beck, C. E.
Beech, C.
Berg, A. W.
Bergner, Bruno
Bettles, R. E.
Beveridge, H.
Bodenschatz, G. A.
Boger, Otto.
Boyle, Clarence, Jr.
Bradley, H. C.
Bright, O., Jr.
Brinkman, P. P.
Bristol, G. C.
Broadbent, L. O.
Brown, Warren
Bruce, Wm. C.
Buckingham, R. W.
Budlong, E. H.
Burke, O. S.
Burns, B. J.
Byers, Arthur A.
Byers, Cecil.
Caldwell, J. W.
Caldwell, L. J.
Callahan, A. J.
Canman, Elmer
Carlson, H. J.
Cathart, Elliot
Chandler, L. W.
Chapman, R. O.
Claessens, M. J.
Clarke, S. W.
Cole, E. P.
Cook, Cecil.
Cook, H. D.
Cooke, J. V.
Corboy, W. J.
Crawford, E. H.
Crichton, H. N.
Crosby, P. A.
Crow, Wm.
Cullen, G. P.
Darmstadter, M.
Davies, T. S.
Davis, J. C.
Davis, Paul
Day, Robert G.
Deane, A. S.
Deneke, Henry
Dewitz, Walter
Downey, L. S.
Dressen, R. R.
Driver, Ansley
Dunlap, A. M.
Easthope, S. K.
Edwards, K. P.
Eisendrath, D. B.
Ellbogen, Albert
Emin, Gustav
Emmett, A. H.
Erickson, J. D.
Etnyre, Geo.
Etshokin, Sam
Eubanks, Wm.
Farley, Wirt
Fasking, S.
Faulkner, Chas.
Fenno, Yan.
Fleming, Frank
Foley, R. T.
Fortner, H. T.
Franklin, A. M.
Fraser, J. G.
Freund, Harry
Fuhs, Albert, Jr.
Fuhs, Carl.
Fulton, H. J.
Furey, Jno. J.
Galvin, James
Geisler, R. J.
Gentry, F. E.
Germain, S. E., Jr.
Gillam, Edwin
Glover, Edwin
Goldberg, Milton
Goold, C. R.
Graff, Walter
Gray, R. L.
Green, Joseph
Gustin, B. B.
Hadlock, Frank
Hagley, Lyman
Hales, J. L.
Hammel, Wm.
Harper, Geo.
Harrold, R. A.
Hay, Robert
Hayne, A. S.
Henderson, E. L.
Henricks, H. H.
Heyn, H. J.
Heyn, L. A.
Hibbard, W. A.
Hill, Frank
Hill, Wm.
Hoadley, Elmer
Holmboe, W. F.
Honan, Wm. P.
Hough, H. R.
Hungerford, W.
Hutchinson, R. M.
Hynes, P. R.
Jackson, F.
James, G. B.
James, R. E.
Johnson, C. L.

ACADEMY—Continued

Johnson, E.
Johnson, H. S.
Johnson, J. B.
Jones, F.
Jones, M. E.
Kahn, Sidney
Kaiserman, J. R.
Kellner, O. R.
Kiley, L. D.
Kloman, Roy
Koestner, F.
Krause, A. A.
Kreer, Fred.
Kroeschell, C.
Kroscher, W. F.
Lamberton, H.
Laskin, Elmer
Lehman, B. W.
Liebenstein, H.
McGlashan, R. G.
McGown, S.
McMullen, E. W.
MacKenzie, J. A.
Macomber, D. M.
Madderon, N.
Maguire, F. V.
Maher, L. E.
Mahood, J. E.
Mann, C. A.
Marimon, F.
Marx, C. H.
Mather, L. V.
Mead, G. F.
Meyer, N.
Miller, E.
Miller, R. C.
Minard, H. H.
Minor, W. A.
Mitchell, G. F.
Mitchell, G. P.
Moore, H. J.
Moore, M.
Mueller, C. W.
Munoz, F. J.
Myers, E. J.
Nadell, J.
Narozny, J.
Neville, W. J.
Newbert, L. W.
Novander, E.
O'Connell, M. A.
Osmena, M. V.
Otis, Spencer, Jr.
Parker, S. R.
Paterson, J. E.
Pay, A. E.
Peiser, M.
Perkins, H. R.
Pettibone, G. D.
Pfaelzer, F. M.
Philipsborn, H.
Phillips, R.
Pitts, J. B., Jr.
Plunkett, T.
Pocklington, I. R.
Pontious, W. W.
Pryor, E. C.
Rankin, C. S., Jr.
Ratkowski, E. P.
Ray, Wm.
Reebie, A. W.
Reilly, Wm.
Repsold, L.
Rich, P. C.
Richards, H. L.
Robinson, P. C.
Rogers, H. J.
Roller, L. H.
Ruehl, Wm.
Russell, E. T.
Rutledge, W. A.
Ryan, L. E.
Ryder, L. T.
Salomon, H. M.
Scarborough, J. B.
Schmich, F. G.
Schuler, C. R.
Selfridge, G.
Selvig, A.
Shafer, G. A.
Smith, H. J.
Smith, S. M.
Snedeker, G. T.
Souther, C. E.
Spierling, A. O.
Spindler, R.
Spring, R. H.
Stanton, C. W.
St. Clair, F.
Stenson, R. X.
Steuer, G. H.
Stevens, C. T.
Stimson, F. S.
Sullivan, E. B.
Sweet, E. P.
Thatcher, E. A.
Thatcher, W. C.
Thompson, H.
Tachappat, W.
Ufer, H.
Vanderkloot, A.
Vanderventer, A. E.
VanKeuren, E. E.
Vynne, Eustace
Walker, Leslie
Warner, Benj.
Watson, G. M.
Weast, V. P.
White, Austin
White, Vernon
Whiting, E. R.
Whitmore, R.
Willis, P. H.
Wilson, A. G.
Winegar, D.
Winter, F. G.
Wohlberg, J. A.
Wolf, F. J.
Wolfe, A. W.
Wolford, R.
Wylie, P. E.
Young, C. D.
Young, G.
Zeisler, L.
Zimmerman, J. J.

LIST of ALUMNI

9.A.C

NOTE:—The following abbreviations are used to denote the course in which the graduate received his degree:

I. Civil Engineering.
II. Mechanical Engineering.
III. Electrical Engineering.
IV. Chemical Engineering.
V. Architecture.

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Electrical Engineering Department, Colorado College.

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FAIRWEATHER, MALCOLM C. (III—'02) .....
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FASH, RALPH H. (IV—'05) ..... Residence, 1001 W. 5th St., Ft. Worth, Texas
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Loccmotive Foreman, Grand Trunk Ry., Toronto, Canada.
GAY, RICHARD H. (III—'98) .....
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GLOVER, BENJAMIN H. (III—'97, E. E.—'01) .....
GOLDSMITH, FRANK R. (II—'05) ..... Residence, 341 9th Ave., Milwaukee, Wis.
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GOODHUE, ALBERT H. (II—'99) ..... Residence, 54 Bryant Ave., Chicago, Ill.
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GORDON, W. J. (II—'99, M. E.—'03) ..... Residence, 5941 Indiana Ave., Chicago, Ill.
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GROVER, EARL W. (III—'04) ..... Residence, 6945 Stewart Ave., Chicago, Ill.
Operating Dept., Chicago Edison Co., Chicago.
HALL, F. BENSON (II—'97) ..... Residence, 152 W. 68th St., Chicago, Ill.
President Inter-State Crude Oil Co., 504 Rector Bldg., Chicago, Ill.
HAMILTON, HAROLD L. (II—'04) ..... Deceased
HAMMOND, CHAS. H. (V—'04) ..... Residence, 4627 Greenwood Ave., Chicago, Ill.
HANAI, GEORGE K. (III—'99) .....
Engineer H. S. Tanaka & Co., Shimbashi, Tokyo, Japan.
HANSEN, HANS J. (I—'03) ..... Residence, 538 41st St., Chicago, Ill.
With W. M. Hughes, Consulting Engineer, Chicago, Ill.
HARBECK, HENRY R. (I—'02) ..... Residence, 4239 Michigan Ave., Chicago, Ill.
Civil Engineering Dept., Illinois Steel Co., South Chicago, Ill.
HARPER. ROBERT B. (IV—'05) ..... Residence, 5534 Washington Ave., Chicago, Ill.
In Charge of Testing Laboratories, People's Gas Light & Coke Co., Chicago, Ill.
HARRIS, ROSCOE B. (II—'02) ..... Residence, 106 E. 29th St., Chicago, Ill.
Engineer, Mexican Central Ry., Aguas Calientes, Mexico.
HART, HARRY A. (I—'04) ..... Residence, Dakota City, Neb.
HARVEY, DEAN (III—'00, E. E.—'05) ..... Residence, 431 South Ave., Wilkinsburg, Pa.
Electrical Engineer, Westinghouse Electric & Manufacturing Co., Pittsburg, Pa.
HARVEY, WILLIAM F. (I—'05) ..... Residence, 269 W. Adams St., Chicago, Ill.
Civil Engineer, Bridge Dept., City of Chicago, City Hall, Chicago.
HARWOOD, E. T. (III—'02) ..... Residence, 2207 Prairie Ave., Chicago, Ill.
Assistant to President of Smeeth Co., 22nd St. and Western Ave., Chicago, Ill.
HAUSSMAN, HERMAN (III—'00) ..... Residence, 1741 Sherman Place, Chicago, Ill.
Electrical Engineer, International Harvester Co., Chicago, Ill.
HAYDEN, GEORGE F. (III—'00) ..... Residence, 7529 Eggleston Ave., Chicago, Ill.
Railroad Insurance Inspector, Frank & DuBois, 41-3 Pine St., New York, N. Y.
HEIN, PETER L. (I—'05 ..... Residence, 499 La Salle Ave., Chicago, Ill.
HEINE, FRED C. B. (III—'05) ..... Residence, 1320 Wrightwood Ave., Chicago, Ill.
Draftsman, Chicago Edison Co., Chicago, Ill.
HEINEN, EMIL J. (II—'04) ..... Residence, Danville, Ill.
HENDERSON, ROY M. (III—'02) ..... Residence, 302 E. 66th St., Chicago, Ill.
Engineer The Arnold Co., 181 La Salle St., Chicago, Ill.
HESKETT, R. M. (III—'02) ..... Residence, 6151 Ellis Ave., Chicago, Ill.
Knox Engineering Co., 1410 Fisher Bldg., Chicago, Ill.
HILL, WARREN E. (II—'05) ..... Residence, 9937 Avenue H, Chicago, Ill.
Estimator Hamler Boiler & Tank Co., 3906 Halsted St., Chicago, Ill.
HILLER, EDWIN J. (III—'04) ..... Residence, 3844 Lake Ave., Chicago, Ill.
Inspection Dept., Commonwealth Electric Co., Chicago.
HINDERT, EDWIN G. (III—'98, E. E.—'05) ..... Residence, 109 Wurst Court, Elyria, Ohio
Chief Mach. and Electrical Engineer, Cleveland & Southwestern Traction Co., Elyria, O.
HOY, WALTER G. (II—'05) ..... Residence, 137 S. Austin Ave., Oak Park, Ill.
With Griffin Wheel Co., Chicago, Ill.
HUEY, RAY S. (III—'99) ..... Residence, 64 Woodlawn Park, Chicago, Ill.
Assistant Superintendent Cement Plant No. 3, Illinois Steel Co., South Chicago. Ill.
HUMISTON, JOHN M. ('98) ..... Residence, Chicago, Ill.
Electrical Engineer, Chicago Telephone Co., Chicago, Ill.
HUTCHINS, LEONARD B. (III—'05) ..... Residence, 2675 N. 43rd Ave., Chicago, Ill.
JACKSON, AUGUSTUS W. (III—'04) ..... Residence, 11212 Church St., Morgan Park, Ill.
With The Arnold Co., Chicago, Ill.
JAMIESON, BERTRAM G. (III—'97) ..... Residence, 2450 South Park Ave., Chicago, Ill.
Chief Draftsman, Chicago Edison Co., Chicago, Ill.

ALUMNI—Continued

JENS, ARTHUR M. (III—'04).....Residence, 3219 Wabash Ave., Chicago, Ill.
Electrical Engineer, Mexican Central Ry., Aguas Calientes, Mexico.
JOHNSON, ERNEST C. (III—'99).....Residence, Ingram, Wis.
JOHNSON, FREDERICK C. (II—'97).....Residence, Tallahassee, Florida
Supervisor Mechanical Department, Florida State Normal and Industrial School, Tallahassee, Florida.
JONES, CLARENCE I. (I—'05).....Residence, Valparaiso, Ind.
KABATECK, MAX G. (III—'03).....Residence, 736 Nelson St., Chicago, Ill.
Inspector, Chicago Underwriters' Association, Chicago, Ill.
KADIC, JOSEPH F. (III—'05).....Residence, 682 S. Avers Ave., Chicago, Ill.
KAEMPFER, ALBERT (III—'03).....Residence, 233 So. Washtenaw Ave., Chicago, Ill.
Draftsman, Sargent & Lundy, Railway Exchange Bldg., Chicago, Ill.
KAPPES, EDWARD F. (III—'98).....Residence, 310 Park Ave., Chicago, Ill.
Installer of Telephone Switch-Boards, Stromberg & Carlson Telephone Mfg. Co., Rochester, N. Y.
KNAPP, MORRIS J. (III—'04).....Residence, Turtle Creek, Pa. (Box 706)
Westinghouse Electric & Mfg. Co., Pittsburg, Pa.
KREHBIEL, F. A. (III—'01).....Residence, Chicago, Ill.
Arnold, Company, Marquette Bldg., Chicago, Ill.
LAM, FRANK V. ('00).....Residence, Milner, Idaho
Electrical Engineer, Faris & Kesl, Milner, Idaho.
LANG, WILLIAM H. (III—'02).....Residence, 732 W. 67th St., Chicago, Ill.
McDonald Engineering Co., Monadnock Bldg., Chicago.
LANNING, JOHN E. (III—'03).....Residence, El Paso, Texas
Assistant Contracting Engineer, Minneapolis Steel & Mchy. Co., Minneapolis, Minn.
LARKIN, FREDERICK G. (III—'02).....Residence, 1821 Topping Ave., New York City, N. Y.
Electrical Engineer, Swartschild & Sulzberger Co., New York.
LEE, MORRIS W. (II—'99).....Residence, 303 Hudson St., Hoboken, N. J.
Mechanical Engineer, Keuffel & Esser Co., Hoboken, N. J.
LEEPER, EDWARD W. (III—'04, E. E.—'04)..Residence, 3034 Cottage Grove Ave., Chicago, Ill.
Underwriters' Association, Chicago.
LENNARTZ, GARFIELD P. (II—'05).....Residence, 1176 Garfield Blvd., Chicago, Ill.
Plant Maintenance Dept., Western Electric Co., Chicago.
LEWIS, CHAS. T. (II—'99).....Residence, 4623 Vincennes Ave., Chicago, Ill.
Estimator in Engineering Department, Link Belt Machinery Co., Chicago.
LEWIS, ELIJAH (III—'02).....Residence, 106 Park Ave., Schenectady, N. Y.
Foreman Steam Turbine Construction Dept., General Electric Co., Schenectady, N. Y.
LEWIS, WALTER I. (II—'01).....Residence, 24 Collins Place, Cleveland, Ohio
Cleveland Chocolate & Cocoa Co., Cleveland.
LIBBY, EDWARD S. (II—'02).....Residence, 6804 Emerald Ave., Chicago, Ill.
Instructor, Mechanical Laboratory, Armour Institute of Technology.
LILIENFELD, EUGENE W. (III—'02).....Residence, 3649 Prairie Ave., Chicago, Ill.
Lilienfeld Bros., Chicago.
LINDBERG, FRITZ A. (III—'01).....Residence, 5832 Indiana Ave., Chicago, Ill.
With George M. Brill, Consulting Engineer, Chicago.
LONEY, NEIL M. (II—'97).....Residence, 448 W. Williams St., Fort Wayne, Ind.
Assistant Master Mechanic, Pennsylvania Ry. Lines, Fort Wayne, Ind.
LONGNECKER, CHAS. S. (II—'00).....Residence, Delta, Ohio
Manager, Delta Electric Light Co., Delta, Ohio.
LUNDGREN, E. LEONARD (I—'04).....Residence, 421 E. Erie St., Chicago, Ill.
Estimator, Waful & Deuchler Co., 606 Marquette Bldg., Chicago.
LYMAN, EUGENE W. ('99).....
Salesman. McKibbin, Driscoll & Dorsey, St. Paul, Minn.
MacCLYMENT, HARRY A. (III—'98).....Residence, 904 N. 4th St., Burlington, Ia.
With Chicago, Burlington & Quincy, Ry.
MacKENZIE, DONALD (III—'98, E. E.—'03)...Residence, 1593 Dorchester Ave., Dorchester,, Mass.
Engineer, Swift & Co., Boston, Mass.
MacMILAN.. A. W. (II—'05).....Residence, 4431 Lake Ave., Chicago, Ill.
Chief Draftsman, Western Paul Steam System Co., 1209 Fisher Bldg., Chicago.
MAHLER, LOUIS F. (III—'99, M. A.—'01).....Residence, 5514 Cabanne Ave., St. Louis, Mo.
L. F. Mahler Co., Electrical, Mechanical and Railway Supplies, 1009 Chemical Bldg., St. Louis, Mo.
MAHONEY, GERALD (III—'97, E. E.—'01).....Residence, Achotal, Vera Cruz, Mexico.
General Manager, Badger Mexican Planters' Co., 1444 Unity Bldg., Chicago.
MALCOLMSON, CHAS. T. (III—'97, E. E.—'02).....Residence, St. Louis, Mo.
U. S. Coal Testing Plant, St. Louis, Mo.
MANIERRE, GEORGE (II—'04).....Residence, 399 Superior St., Chicago, Ill.
Draftsman, Allis Chalmers & Co., Milwaukee Wis.
MARIENTHAL, OSCAR B. (V—'99).....Residence, 4047 Grand Blvd., Chicago, Ill.
Architectural Draftsman, D. H. Burnham & Co., 1417 Railway Exchange Bldg., Chicago.

ALUMNI—Continued

MARSHALL, HARRY B. (III—'05).....Residence, 5321 Wabash Ave., Chicago, Ill.
Electric Storage Battery Co., Marquette Bldg., Chicago.
MARTIN, ROBERT C. (III—'00).....Residence, 3537 Vernon Ave., Chicago, Ill.
Inspector, Chicago Underwriters' Association, Chicago.
MATT, G. LEO (III—'97).....Residence, Lancaster, Ohio
Engineer, Lancaster Electric Light Co., Lancaster, O.
MATTHEWS, WILLIAM C. (II—'03).....Residence, 4758 Michigan Ave., Chicago, Ill.
Matthews Gas Machine Co., Chicago.
MATTHEWS, W. D. (III—'99).....Residence, 3706 Prairie Ave., Chicago, Ill.
Supt. of Inspection, Chicago Board of Underwriters, 159 La Salle St.
McBURNEY, EDWARD J. (II—'05).....Residence, 6321 Woodlawn Ave., Chicago, Ill.
McDONALD, CLARENCE T. (III—'04).....Residence, 1952 Polk St., Chicago, Ill.
Electrical Engineer, Chicago Fuse Wire Mfg. Co., 170 S. Clinton St., Chicago.
MILLER, HARRY P. (III—'02).....Residence, Brooklyn, N Y.
Instructor, Pratt Institute, Brooklyn, N. Y.
MILLER, IVAN D. (I—'02).....Residence, 6000 Rhodes Ave., Chicago, Ill.
Assistant Engineer, C., M. & St. P. Ry., 1345 Ry. Exchange Bldg., Chicago.
MILLER, WALTER E. (III—'01).....Residence, 6710 Stewart Ave., Chicago, Ill.
Insurance Survey Bureau, Chicago.
MORRIS, GEORGE E. (V—'98).....Residence, 353 Chicago St., Elgin, Ill.
Architect, 2 Sherman Bldg., Elgin, Ill.
MORSE, CHAS. S. (III—'99).....Residence, 2228 Hollywood Ave., Toledo, Ohio
Master Car Builder, W. & L. E. R. R. Co., Toledo.
MOSS, CHAS. M. (III—'02).....Residence, 7728 Kelly St., Pittsburg, Pa.
Electrical Engineer, Westinghouse Electric & Mfg. Co., Pittsburg.
MUELLER, JOHN H. S. (III—'03).....Residence, 3251 Calumet Ave., Chicago, Ill.
NACHMAN, HENRY L. (II—'02).....Residence, 614 E. 46th St., Chicago, Ill.
Instructor, Machine Design, Armour Institute of Technology, Chicago.
NAGELSTOCK, EDWARD H. (III—'98).....Residence, 53 Washington Ave., Schenectady, N. Y.
Engineering Dept. General Electric Co., Schenectady, N. Y.
NATKIN, BENJ. (II—'05).....Residence, 699 S. Albany Ave., Chicago, Ill.
Engineer, Automatic Heating Co., 1209 Fisher Bldg., Chicago.
NELSON, EMIL F. (III—'03).....Residence, Turtle Creek, Pa.
Westinghouse Elect. & Mfg. Co., East Pittsburg, Pa.
NIESTADT, GEORGE W. (I—'03).....Residence, 708 N. California Ave., Chicago.
Structural Engineer, Vierling McDowell & Co., Chicago, Ill.
NOBLE, ALDEN C. (III—'01).....
Field Engineer, National Board of Fire Underwriters, 135 Williams St., New York, N. Y.
O'BRIEN, EDWARD D. (III—'97).....Residence, 479 Washington Blvd., Chicago, Ill.
Inspector, Department of Electricity, Chicago.
O'LEARY, JOHN W. (III—'99).....Residence, 4013 Drexel Blvd., Chicago, Ill.
Secy. and Treas. Arthur J. O'Leary & Son Co., Chicago.
OLSON, ELMER H. (III—'99).....Residence, Texico N. M.
Resident Engineer, A., T. & S. F. Ry., Chicago, Ill.
PARKER, JOHN H. (III—'01).....Residence, 437 N. Church St., Rockford, Ill.
District Agent, New England Mutual Life Insurance Co.
PARKER, W. F. (III—'05).....Residence, 5444 Monroe Ave., Chicago, Ill.
With Holtzer-Cabot Co., Chicago.
PATTEN, GEORGE H. (III—'98).....Residence, Portland, Ore.
With General Electric Co., Portland, Ore.
PAVEY, WILLIAM B. (II—'99).....Residence, 2550 Wayne Ave., Edgewater, Ill.
Secy. and Treas. Economy Engineering Co., Chicago.
PAYNE, JOHN H. (III—'05).....Residence, Springville, N. Y.
PEASE, FRANCIS G. (III—'01).....
PEEBLES, JAMES C. (III—'04).....Residence, Naperville, Ill.
PENN, JOHN C. (I—'05).....Residence, 455 W. 109th St., Chicago, Ill.
Assistant Engineer, Bureau of Bridges, City of Chicago.
PERRY, EARL H. (III—'03).....
With Wood Motor Vehicle Co., Chicago, Ill.
PERRY, ROBERT V. (II—'97, M. E.—'02).....Residence, 536 W. 66th St., Chicago, Ill.
Asscciate Professor of Machine Design, Armour Institute.
PERSONS, VICTOR S. (I—'02).....Residence, Berea, Ohio
With Noble & Modjeski, Thebes, Ill.
PHILLIPS, WILLIAM C. P. (I—'03).....Residence, 1159 E. 59th St., Chicago, Ill.
Maintenance of Way Dept., C., B. & Q. Ry., Chicago, Ill.
PIERCE, CHAS. W. (III—'01).....Residence, Tuskegee, Ala.
Instructor, Electrical Engineering, Tuskegee Institute, Tuskegee.
PORTER, LOUIS I. (III—'99, E. E.—'04).....Residence, 6912 Perry Ave., Chicago, Ill.
Draftsman Engineering Dept., Chicago Edison Co., Chicago.

ALUMNI—Continued

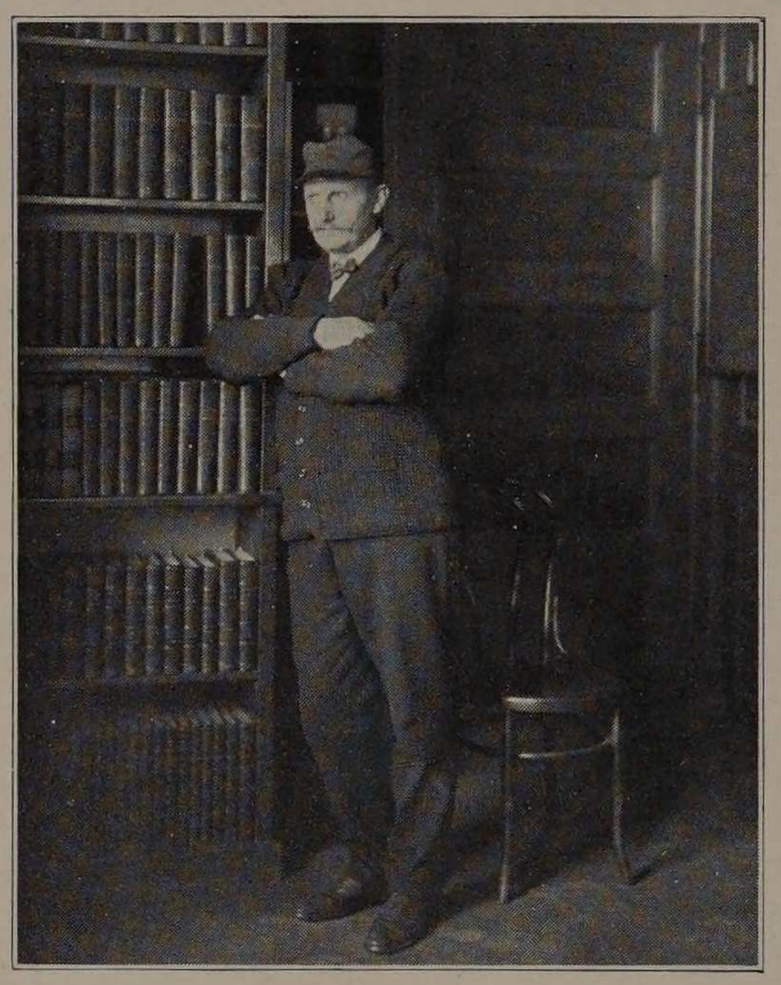
POSTLETHWAITE, BERKLEY K. (II—'02, M. E.—'05).....Residence, 1115 N. 24th St., S. Omaha, Neb.
Assistant Chief Engineer, Swift & Co., S. Omaha, Neb.
POWERS, HORACE S. (V—'99).....Residence, 3004 Prairie Ave., Chicago, Ill.
Architect with H. V. D. Shaw, 175 Dearborn St., Chicago.
PRENNER, ISEDOR (III—'97).....Residence, 1325 N. 7th St., Philadelphia, Pa.
Prenner & Talbot, 1108 Betz Bldg., Philadelphia.
PRESCOTT, ORSON R. (II—'04).....Residence, 341 9th Ave., Milwaukee, Wis.
Asst. Mechanical Engineer, Pfister & Vogel Leather Co., Milwaukee.
PUTT, FRANK A. (III—'05).....Residence, 3335 Armour Ave., Chicago, Ill.
QUIEN, E. L. (IV—'03).....Residence, 13301 Houston Ave., Hegewisch, Ill.
Chemist, General Chemical Co., Hegewisch, Ill.
RANSOM, CHAUNCEY O. (III—'99).....Residence, 69 Kenmore St., Cleveland, Ohio
Representing New Eng. Life Ins. Co. and Fidelity & Casualty Co., 506 Williamson Bldg., Cleveland.
RATCLIFF, WALTER A. (II—'05).....Residence, 4729 Champlain Ave., Chicago, Ill.
Mechanical Draftsman, Armour Glue Works, 31st & Benson, Chicago.
RAWSON, H. BOYD (III—'03).....Residence, 210 S. Chestnut St., Iola, Kas.
Electro Metallurgist, Lanyon Zinc Co., Le Harpe, Kas.
REDMAN, ANTHONY R. (III—'05).....Residence, 375 Campbell Ave., Chicago, Ill.
REILY, SOLON L. (V—'05).....Residence, 5809 Calumet Ave., Chicago, Ill.
Draftsman and Supt. Edwin L. Downs, Architect, 280 La Salle St., Chicago.
REININGER, ROBERT G. (II—'02).....Residence, Phillipsburg, N. J.
With Ingersoll-Sargent Drill Co., Philipsburg.
RICE, RALPH H. (III—'97).....Residence, 5343 Madison Ave., Chicago, Ill.
Asso. Professor of Electrical Engineering, Armour Institute, Chicago.
RICHARDSON, ERSKINE (III—'97).....Residence, Santa Barbara, Cal.
Ranchman.
DE RIMANOCZY, BELA (III—'99, E. E.—'05)....Residence, VI Podmaniczky utcza 27 Budapest, Austria
Chief Engineer, Home Electric Co., Budapest, Austria.
RISING, PHILIP A. (II—'98).....Residence, 1633 Asbury Ave., Evanston, Ill.
Assistant Manager, Western Branch, Chas. Pfizer & Co., Chicago and New York.
ROBINSON, GEORGE B. (I—'03).....Residence, 4223 Calumet Ave., Chicago, Ill.
ROBINSON, RHEA H. (III—'05).....Residence, 439 20th Ave., Milwaukee, Wis.
ROCHLITZ, OSCAR A. (III—'01).....Residence, 1962 Kenmore Ave., Chicago, Ill.
Assistant Professor of Chemistry, Armour Institute, Chicago.
ROESCH, CHAS. H. (III—'98).....
Real Estate and Building, 1316 G St., N. W., Washington, D. C.
ROESCH, DANIEL (II—'04).....Residence, Turtle Creek, Pa. (P. O. Box 706)
Erecting Engineer, Westinghouse Machinery Co., E. Pittsburg, Pa.
ROOS, ERLE S. (III—'03).....Residence, 484 E. 42nd Place, Chicago, Ill.
Inspector, American Telephone & Telegraph Co., Rand-McNally Bldg., Chicago.
RUEGNITZ, WALTER R. (III—'01).....Residence, 206 Ann St., Elgin, Ill.
Insurance Engineer, Natl. Bd. of Underwriters, 135 Williams St., New York, N. Y.
SALAMSON, MAX (III—'97).....Residence, 350 North Ave., Chicago, Ill.
Rush Medical College, Chicago.
SAMPSON, CHAS. C. (II—'04).....Residence, 1800 E. 36th St., Kansas City, Mo.
With Robt. B. Orr Engineering Co., Kansas City.
SANFORD, LOUIS A. (III—'02).....Residence, 1026 E. 58th St., Chicago, Ill.
With Young-Mann Averill Co., Chicago.
SCHEIDLER, OSCAR (II—'02).....Residence, 243 W. Main St., Newark, Ohio
Secy. and Assistant Mgr., Scheidler Machine Works, Newark, Ohio.
SCHROEDER, CARL P. (II—'99).....Residence, 1296 S. Kedzie Ave., Chicago, Ill.
Draftsman, Sargent & Lundy, Chicago.
SEE, P. V. C. (III—'04).....Residence, 6516 Madison Ave, Chicago, Ill.
Shop Inspector, Metropolitan Elevated Ry., Chicago.
SHAFER, SAMUEL E. (II—'02).....Residence, 924 National Ave., Milwaukee, Wis.
Draftsman, Chain Belt Co., Milwaukee, Wis.
SHARP, HERBERT M. (I—'05).....3612 Prairie Ave., Chicago, Ill.
SHEIBLEY, FRANK D. (III—'97).....Residence, 2330 7th Ave., New York, N. Y.
Chief Draftsman, Consolidated Telegraph & Electrical Subway Co., 53 Duane St., New York.
SHERMAN, STANLEY B. (III—'03).....Residence, 246 Adams St., Bay City, Mich.
Supt. Gas Works, Bay City, Mich.
SHIMIZU, HOHSON S. (II—'03).....Residence, 5845 Calumet Ave., Chicago, Ill.
With Metcalf Grain Elevator Co., Chicago.
SHUBART, BENEDICT (II—'99).....Residence, 1553 Steele St., Denver, Colo.
Lindroth, Shubart & Co., Boston Bldg., Denver, Colo.
SILVER, EMILE (I—'04).....Residence, 4953 Prairie Ave., Chicago, Ill.
With McKlinton Marshall Construction Co., Chicago.
SIMS, WILLIAM F. (III—'97. E. E.—'03).....
With Chicago Edison Co., Chicago, Ill.

ALUMNI—Continued

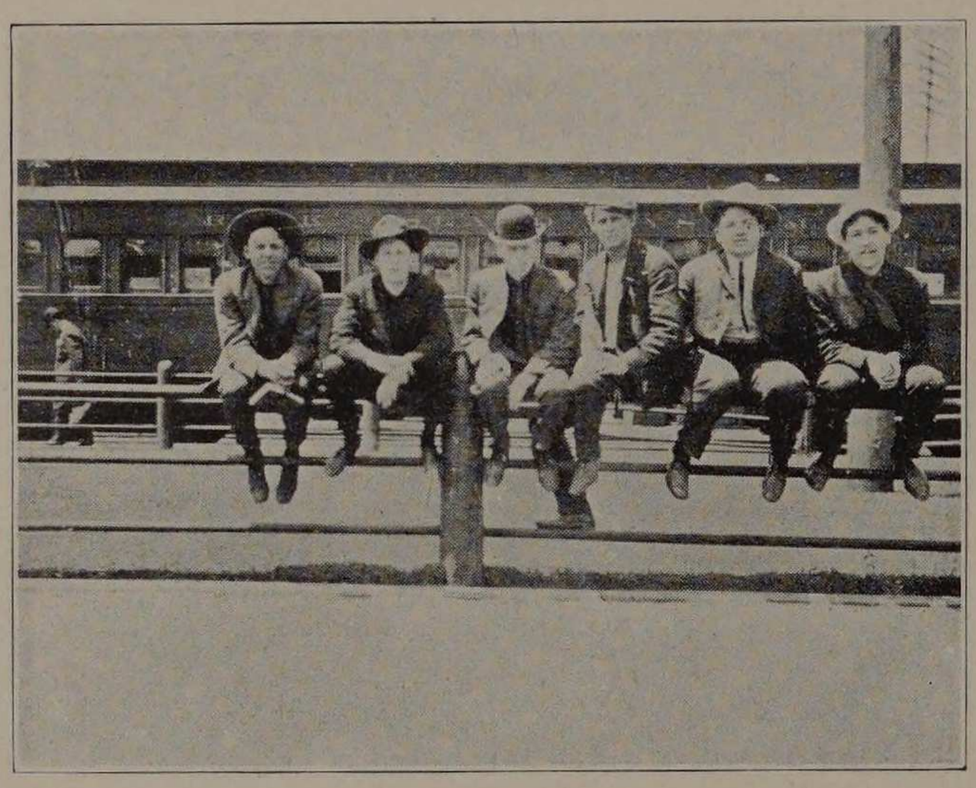
SKLOVSKY, MAX (III—'00).....Residence, 1442 13th St., Moline, Ill.
Master Mechanic, Deere & Co., Moline, Ill.
SLAKER, HARRY J. (III—'98, E. E.—'02).....Residence, 55 W. Essex Ave., Lansdown, Pa.
Supt. of Refinery, U. S. Mint, Philadelphia, Pa.
SLOAN, JAMES R. (III—'97, E. E.—'02).....Residence, 1409 10th St., Altoona, Pa.
Electrician, Office Genl. Supt. Motive Power, Penna. Ry., Altocna.
SNOWDON, CHAS. R. (III—'05).....Residence, Y. M. C. A. 3rd St., Columbus, Ohio
With Columbus Citizens' Telephone Co., Columbus, O.
STARKWEATHER, ED. V. (III—'99).....
Office Engineer, Natl. Bd. of Fire Underwriters, 135 Williams St., New York, N. Y.
ST. CLAIR, O. A. (III—'05).....Residence, 337 N. Ninth St., Indiana, Pa.
STEM, LE VERE H. (IV—'05).....Residence, 401 33rd St., Chicago, Ill.
STILLSON, HOWARD G. (III—'03).....Residence, 3709½ Park Hill Ave., Milwaukee, Wis.
With Milwaukee Gas Light Co., Milwaukee.
STRANG, RUPERT H. (III—'04).....Residence, Richland Center, Wis.
Supt. Electric Light Plant, Richland Center.
STRICKLER, JOHN F. (II—'03).....Residence, Chicago, Ill.
With Geo. Whiting Co., 428 N. Halsted St., Chicago, Ill.
SWIFT, JOHN B. (III—'01).....Residence, 6518 Yale Ave., Chicago, Ill.
Draftsman, Greenlee Bros., Chicago.
TARBELL, CHAS. L. (II—'99, M. E.—'04).....Residence, 1818 Munroe St., Toledo, O.
With Wabash Ry.
TAUSSIG, WILLIAM S. (III—'03).....Residence, 4911 Washington Park Place, Chicago, Ill.
Contracting Engineer, Western Electric Co., Chicago.
TAYLOR, FITZHUGH (III—'00).....Residence, 382 E. Ohio St., Chicago, Ill
Professor Fire Protection Engineering, Armour Institute, Chicago.
TERRY, OTIS N. (II—'99).....Residence, 664 W. Division St., Chicago, Ill.
THOMPSON, JOHN K. (IV—'05).....Residence, 8200 Jeffrey Ave., Chicago, Ill.
Thompson & Smith, 1514 Manhattan Bldg., Chicago.
TOUSLEY, JOHN H. (III—'00).....Residence, 5952 Wentworth Ave., Chicago, Ill.
Inspector, Chicago Fire Underwriters' Association, Chicago.
TWICHELL, FREDERICK W. (III—'99).....Residence 632 So. Kedzie Ave., Chicago, Ill.
Dredge Designer, Webster Mfg. Co., Chicago.
TYLER, ALVA W. (III—'05).....Residence, 3403 Paulina St., Chicago, Ill.
VEY, FRANK E. (I—'05.)
WAGNER, ARTHUR (III—'03).....Residence, Turtle Creek, Pa. (P. O. Box 702).
With Westinghouse Electric Mfg. Co.
WALLACE, ERNEST L. (III—'03).
WALTHER, FREDERICK P. (III—'00).....
Field Engineer, Nat'l Bd. of Fire Underwriters, 135 Williams St., New York, N. Y.
WARREN, WILLIAM (III—'99) ..... Deceased.
WATSON, VERNON S. (V—'00).....Residence, 5762 Rosalie Ct., Chicago, Ill.
Draftsman, D. H. Burnham & Co., Chicago.
WATT, JAMES M. (II—'04).....Residence, 2969 Wabash Ave., Chicago, Ill.
Draftsman, Griffin Wheel Co., Chicago.
WEBER, EUGENE R. (II—'03).....Residence, 1514 Grace St., Chicago, Ill.
Draftsman, Illinois Steel Co., So. Chicago.
WEEK, JOHN E. (II—'02) .....Deceased.
WEINSHEIMER, WARREN E. (III—'98).....Residence, 3028 Calumet Ave., Chicago, Ill.
Manager, Minerallac Co., Chicago.
WEISSKOPF, MAURICE J. (I—'03).....Residence, 608 Blue Island Ave., Chicago, Ill.
WENDT, SAMUEL J. (III—'03).....Residence, 1723 Orrington Ave., Evanston, Ill.
With North Shore Electric Co., Chicago.
WHEELER, JOHN J. (II—'97).....Residence, Lincoln Institute, Jefferson City, Mo.
Supt. of Industrial Department, Lincoln Institute.
WHITE, ERNEST C. (II—'99).....Residence, 1922 1st Ave., Cedar Rapids, Iowa
WHITNEY, FRED B. (I—'05).....Residence, 5812 Normal Ave., Chicago, Ill.
Engineering Dept., Pennsylvania Co., Chicago.
WICKERSHAM. ED. J. (II—'04); (III—'05).....Residence, 6237 Kimbark Ave., Chicago, Il..
WILLARD, DONALD E. (II—'05).....Residence, 470 E. 44th St., Chicago, Ill.
WILLIAMS, ROY E. (III—'04).....Residence, 3219 Wabash Ave., Chicago, Ill.
Chief Draftsman, Morgan & Gardner Electric Co., Chicago.
WRIGHT, MALVIN E. (III—'05).....Residence, 106 Wright St., Waukesha, Wis.
Traffic Dept., Missouri & Kansas Tel. Co., Kansas City, Mo.
ZIMMERMANN, FRED W. (III—'00).....Residence, Factoryville, Pa.
Draftsman, D. L & W. Ry., Keyser Valley Shops, Scranton, Pa.
ZUCKERMAN, HERBERT G. (IV—'04).....Residence, 77 Bowen Ave., Chicago, Ill
Lima Electric Railway and Light Co., Lima, Ohio.



IN FRONT OF THE "CITY HALL," BLUE ISLAND, ILL.



OUR OLD FRIEND—"FRANK."



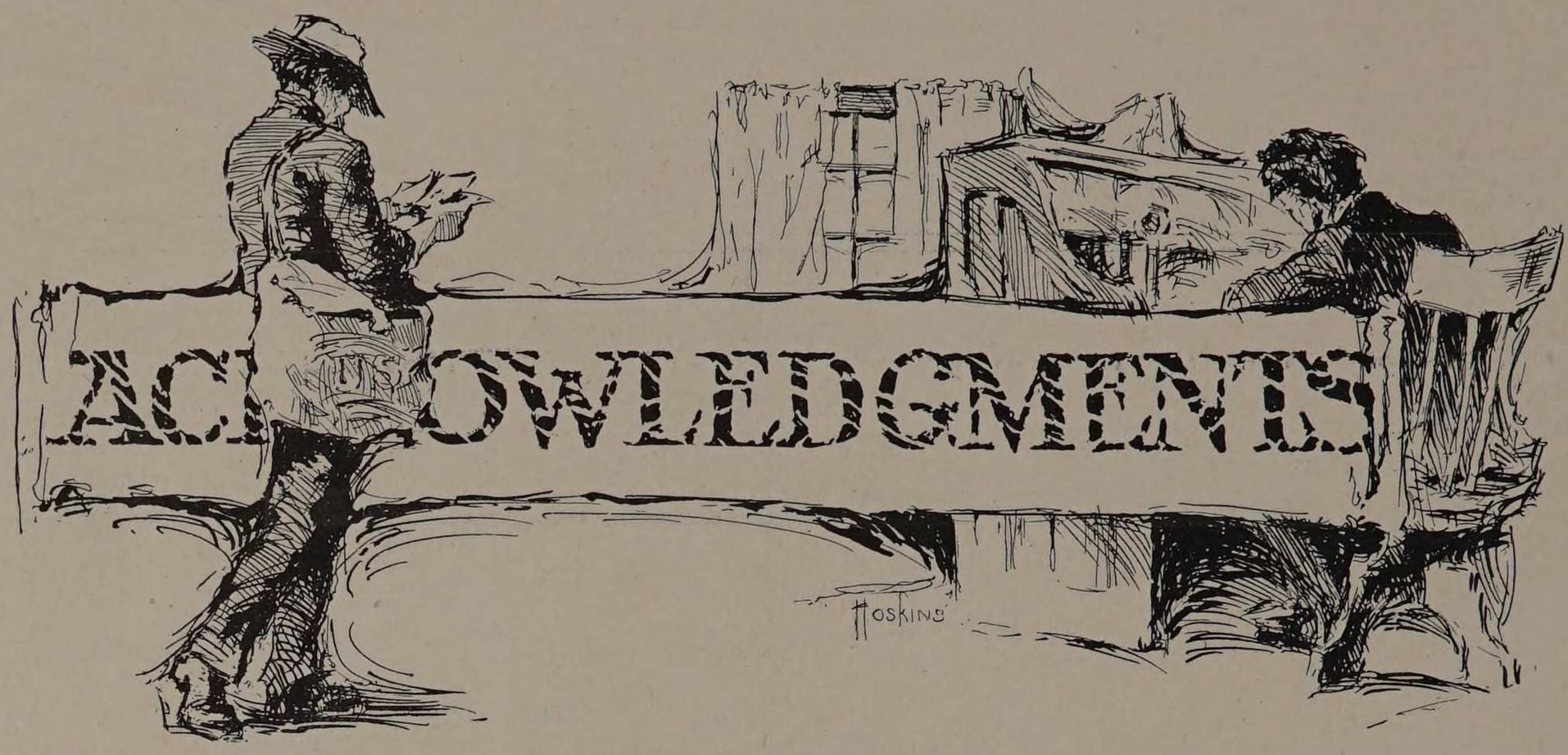
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In Memoriam

Henry A. De Vos Oosterbeek, 1907
Died April 23, 1905

Robert Irwin, 1908
Died May 31, 1905

Louis Raymond Levings, 1906
Died August 2, 1905



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To the firms, who by their advertising in our pages, have made this book possible, are we grateful. To all others who, in any capacity, have given their aid to this issue of THE INTEGRAL, do we express our sincere thanks, more particularly to the Board of Trustees and to the following persons:

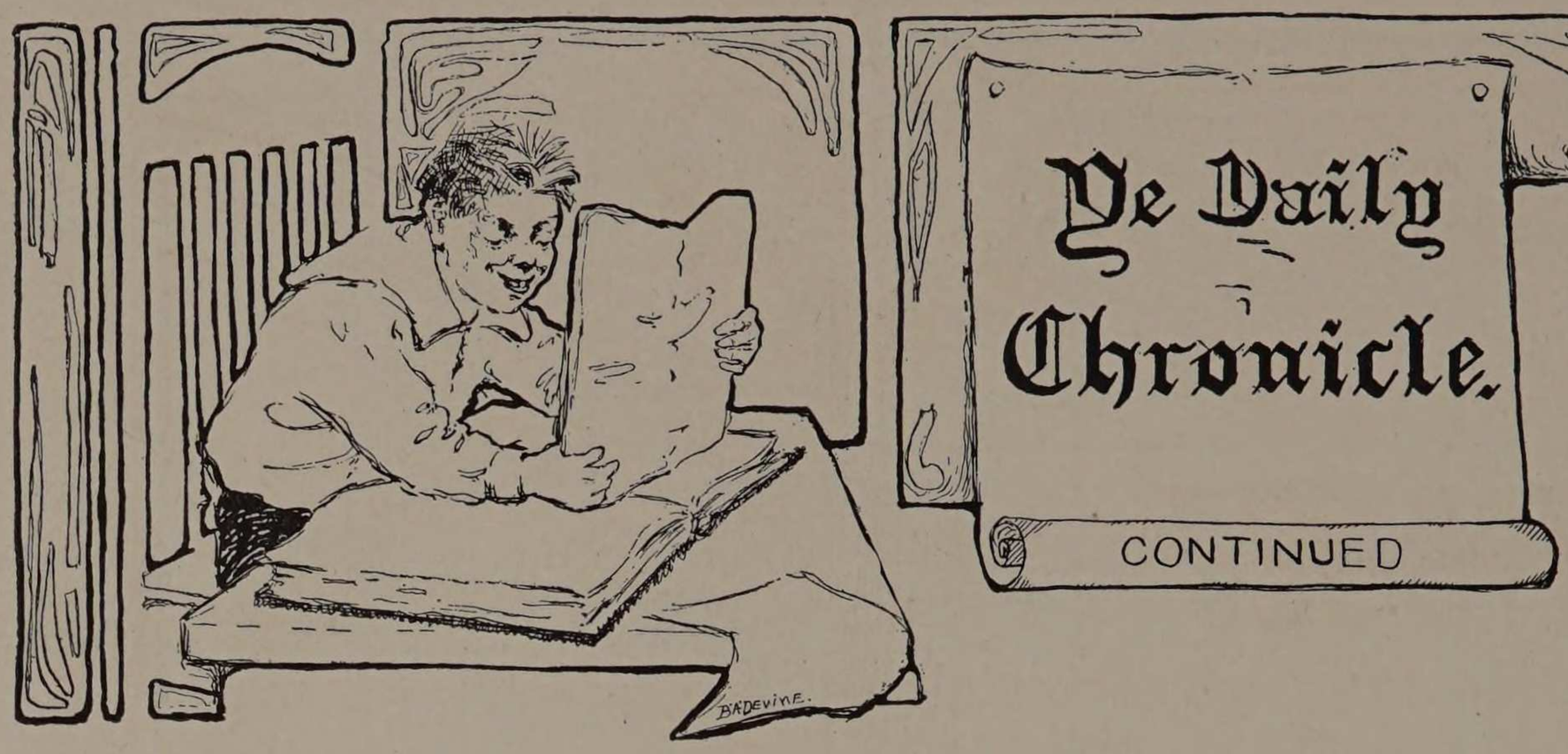
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Ye Daily Chronicle



Being a Lift of the Happenings under each Day of the College Year



1905.

April 3—Registration Day. "Cholly" Tibbetts leaves for New York.

April 4—Short talks by all of the profs about Spring Fever and other maladies of the season. Average attendance in classes 27.48 per cent.

April 5—Glee and Mandolin Clubs' Concert at Waukegan, Ill.

April 6—Members of the Glee Club, who could afford to ride, get back home.

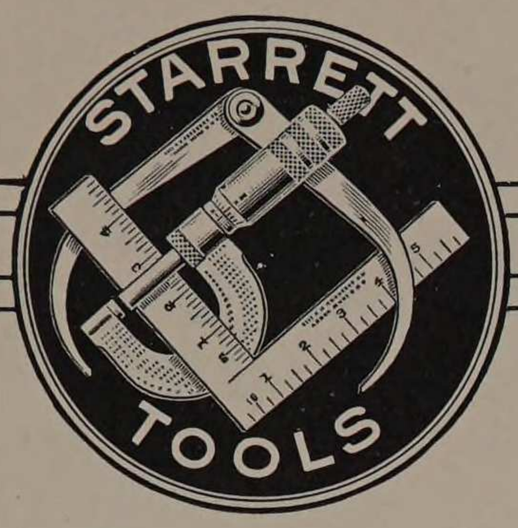
April 7—Radical X Dance at Waupanseh Club. Attendance 75 couples. Frappe was fine.

April 8—Baseball: Tech vs. Northwestern U. at Ravinia Park, Ill. Score: A. I. T. 6, Northwestern 7.

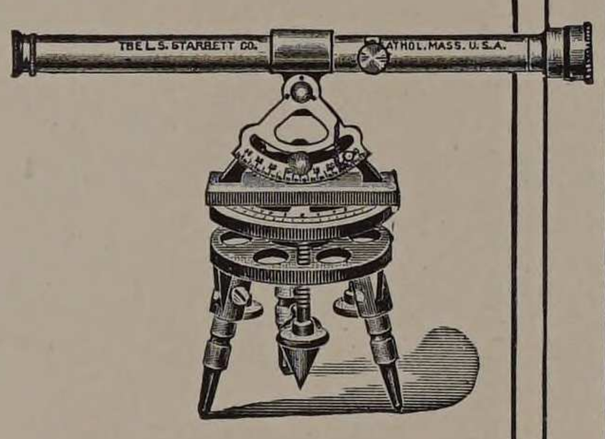
April 10—Thompson appears in a spring suit. Last of the Glee Club wanderers return from Waukegan. Their sworn statement is that they will not walk again.

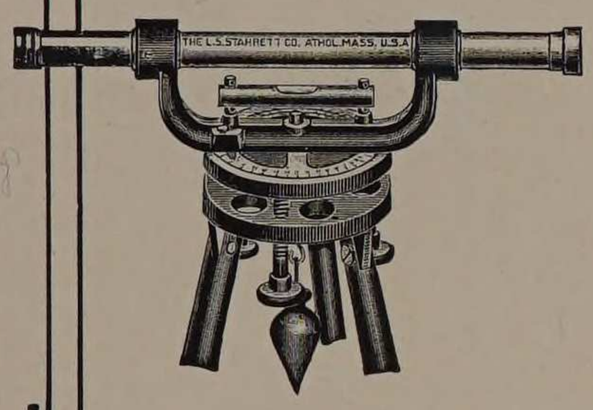
April 11—Assembly: Students addressed by President Andrew Raymond of Union College, Schenectady, N. Y.

April 13—Chemical Number of THE FULCRUM appears. Faculty Club holds a reception in the Library. Mr. Opie Read reads some of his stories. Glee Club renders some selections.



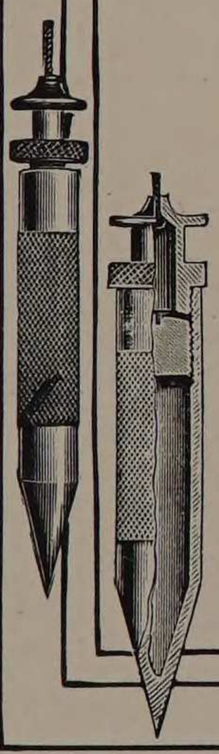
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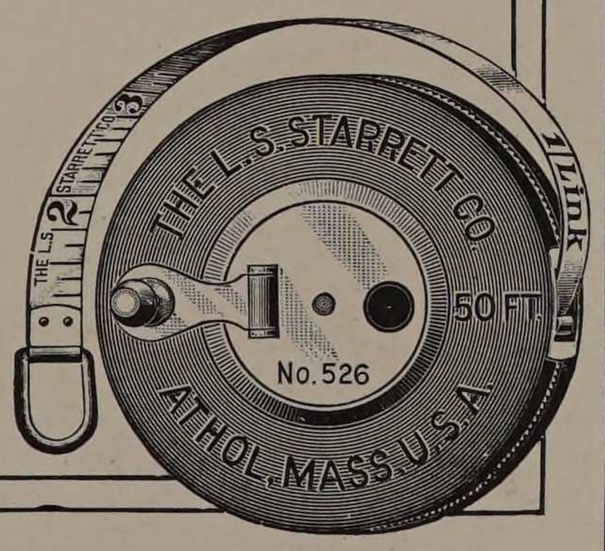


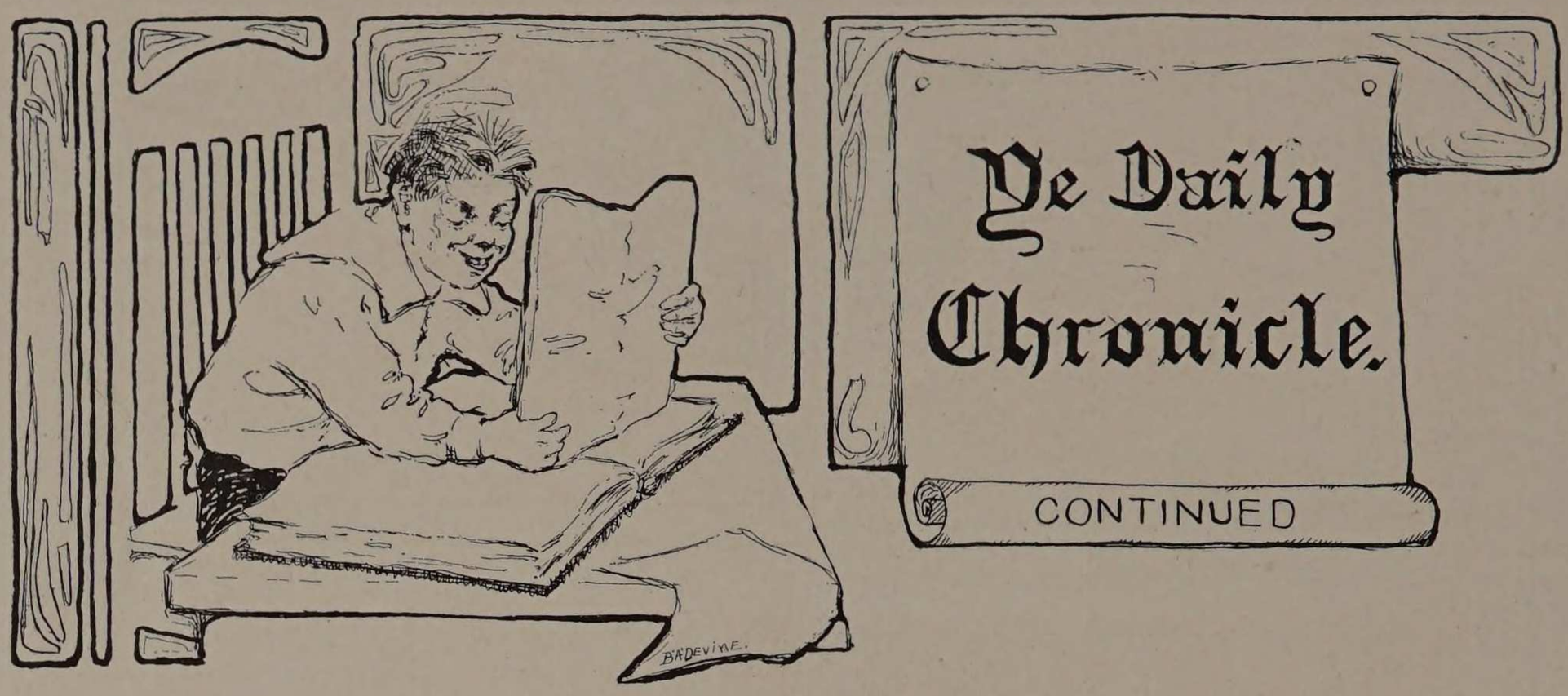
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1905.

April 14—Assembly: Miss Kate Wisner McKluskey gives reading in Mission. Later, Mr. Rorer of the General Electric Company addresses Juniors and Seniors in Science Hall. He is looking for labor at 15 cents per hour. Glee and Mandolin Club Concert at Ravenswood, Ill.

April 15—Baseball: Tech vs. Fairbanks-Morse on Ogden Field. Score: 8 to 4 in favor of the Tech.

April 17—1907 Class Meeting in Science Hall. Election of Integral Board for 1905-6.

April 19—Academy plays baseball with Northwestern Academy to the tune of 15 to 2.

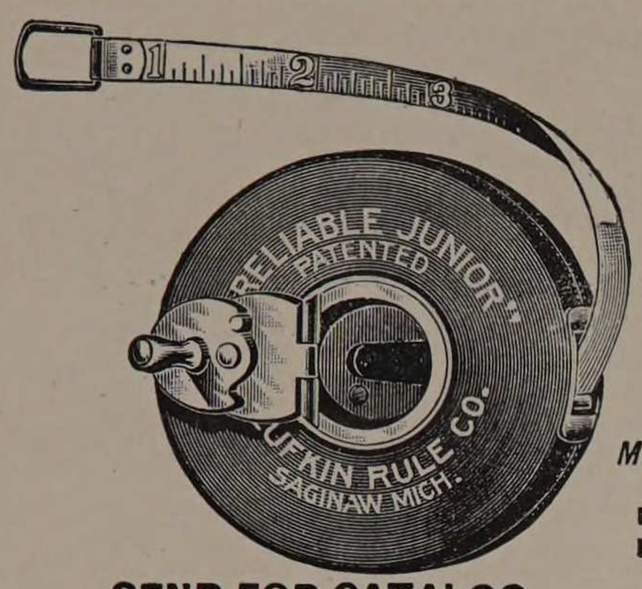
April 20—Walter Camp does not take his nap in Math. Inference, he must have had something on his mind besides his hat.

April 21—1908 Class Meeting. Election of Fulcrum Staff for 1905-6, Eyers and Ellington winning out.

April 22—Baseball: Tech vs. University of Illinois 2nd. Score: A. I. T. 4, U. of I. 9. Academy defeats Morgan Park. Score: 10 to 6.

April 24—More excitement in the Math classes. Alling works a Calculus problem and demonstrates it to the class.

April 26—Miller falls asleep in Economics and dreams that the Integral Board is dividing *real* profits. Suffers a rude awakening.



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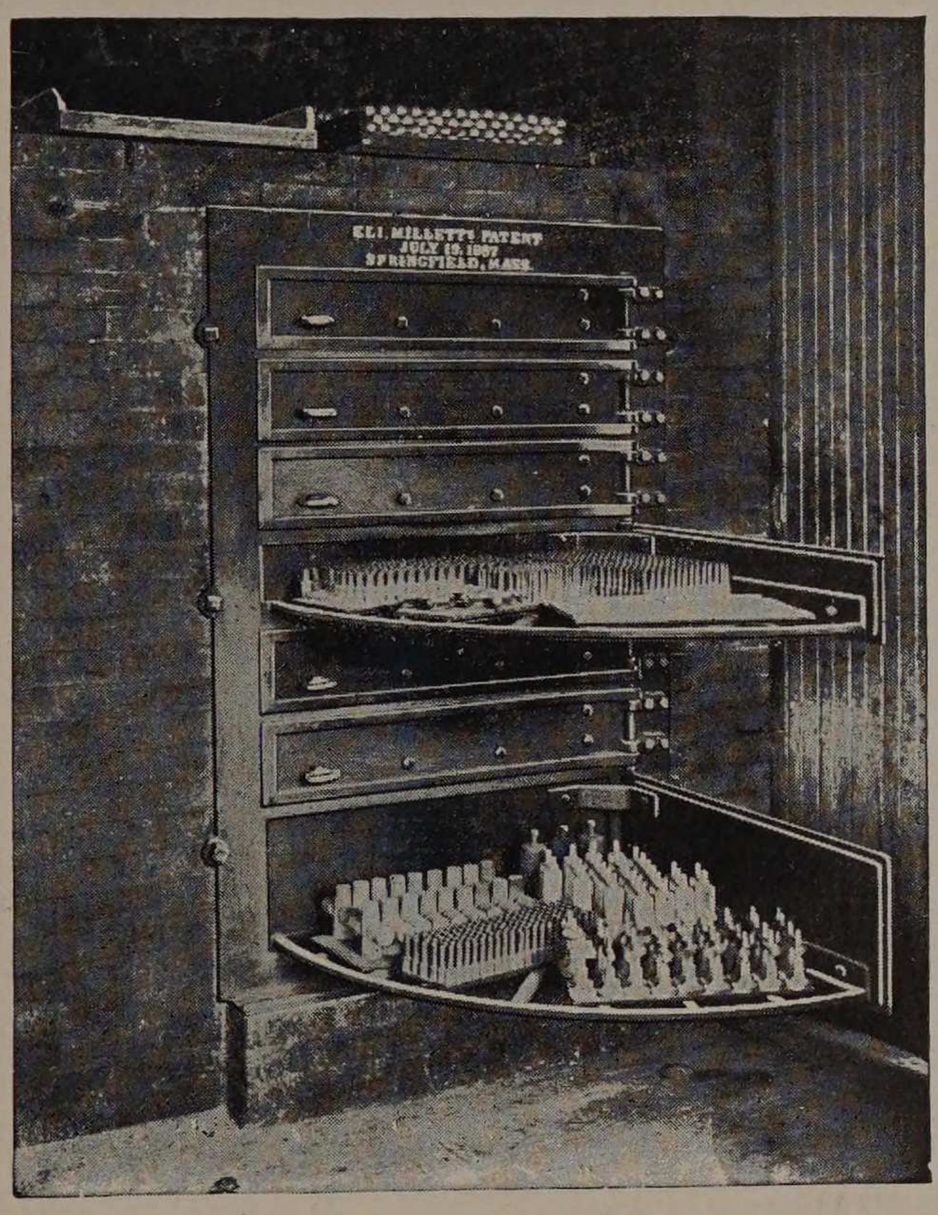
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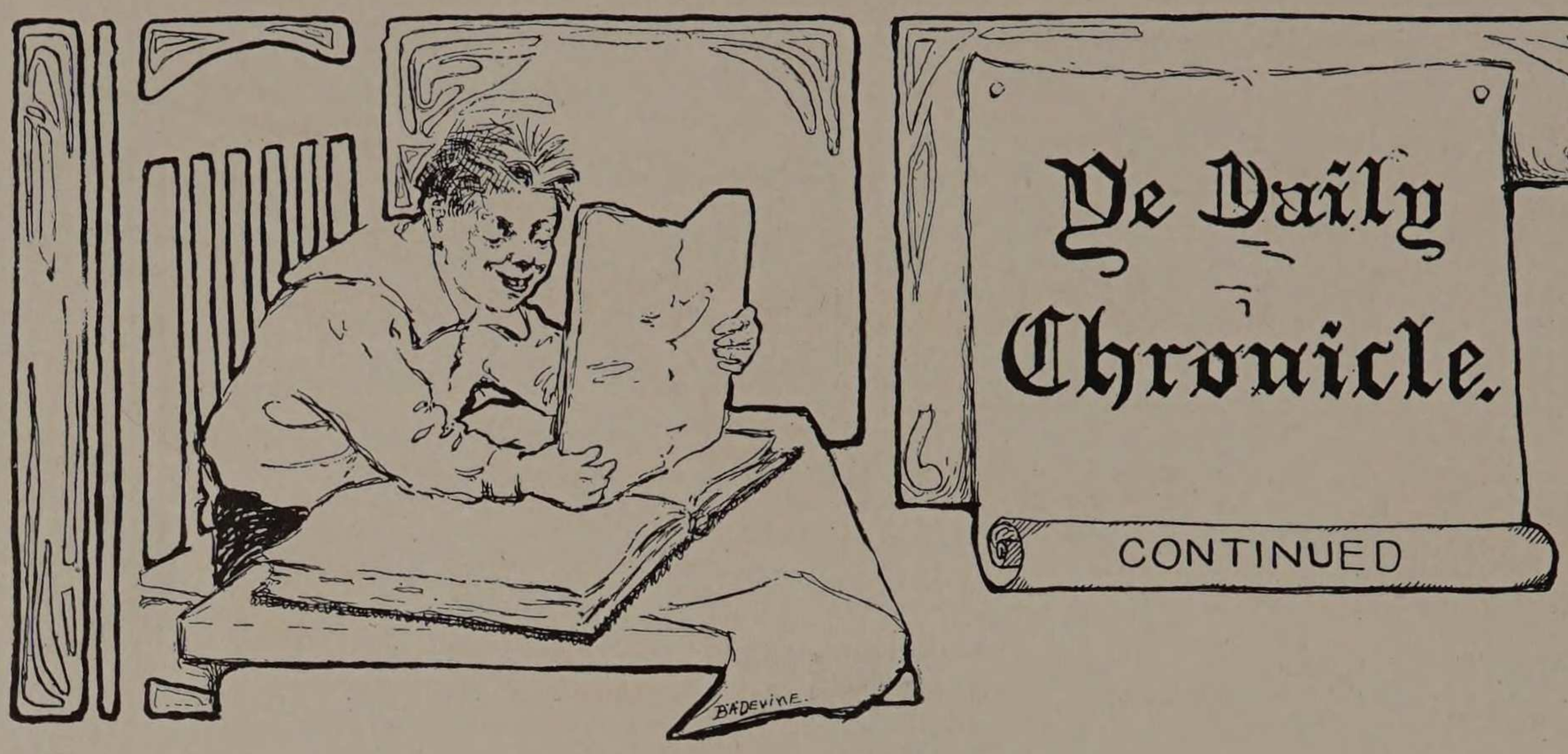
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1905.

April 28—Sophomore Informal at the Colonial Club. 130 couples attend and pronounce it the best dance of the year. Music by Ballou.

April 29—A. I. T. 5, Lake Forest 6, in baseball at Lake Forest. Academy Baseball Team plays at Elgin, Ill. Score: A. S. A. 10, Elgin High 2. Academy vs. Evanston High in track meet on Ogden Field. A. S. A. wins by a score of 70 to 54.

April 30—Sunday. Engineer Jones invents the expression "Holy Cow."

May 1—Tech baseball team plays University of Illinois on Ogden Field. Score: A. I. T. 3, U. of I. 8. A. S. A. defeats Wendell Phillips on the diamond by a score of 10 to 3.

May 2—Academy team does not win a game today—none scheduled. Weedy Hebard counts the pickets in the Ogden Field fence.

May 3—Academy has a baseball game scheduled, so wins one, University High being the victim. Score: 8 to 7.

May 6—Again! This time at Ravinia Park. A. S. A. 4, Northwestern Academy 2.

May 7—Some old friends look Henning up at the Institute and tell him what a big boy he is getting to be.

May 8—THE INTEGRAL for 1904-5 placed on sale. Baseball: Academy vs. Wendell Phillips on Ogden Field. Score: A. S. A. 9, W. P. H. S. 7.

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1905.

May 9—Assembly in the Mission. Dean Monin addresses students on "Life of Friedrich Schiller," this being the 100th anniversary of his death.

May 10—Small attendance at school, large attendance at the matinees. Ellington loses 8 cents by not paying his gas bill on time.

May 11—Architecture and Fire Protection Number of THE FULCRUM appears. Tech defeats Academy in baseball on Ogden Field.

May 12—L. B. Jones goes to a "phoney-graft" dance.

May 13—Baseball: Tech defeats St. Viateurs at Bourbonais (wherever that is). Score: 5 to 4. Tech track team meets Lake Forest at Lake Forest. Score: 45 to 59 in favor of Lake Forest. Academy adds another scalp to its belt. A. S. A. 14, Joliet High School 6.

May 15—Academy plays Hyde Park on Ogden Field. Score: 2 to 0 in the Academy's favor—as usual.

May 16—A. S. A. 3, St. Cyril College 1, at baseball. Game played at Hand's Ball Park.

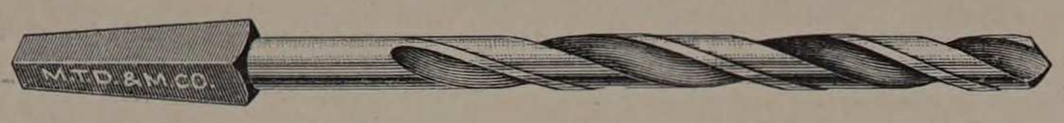
May 17—Great excitement in the upper classes. Parker seen without his pipe and Willard and Durr work on their thesis.

May 18—Sigwalt wears a very tight-fitting hair-cut to school.

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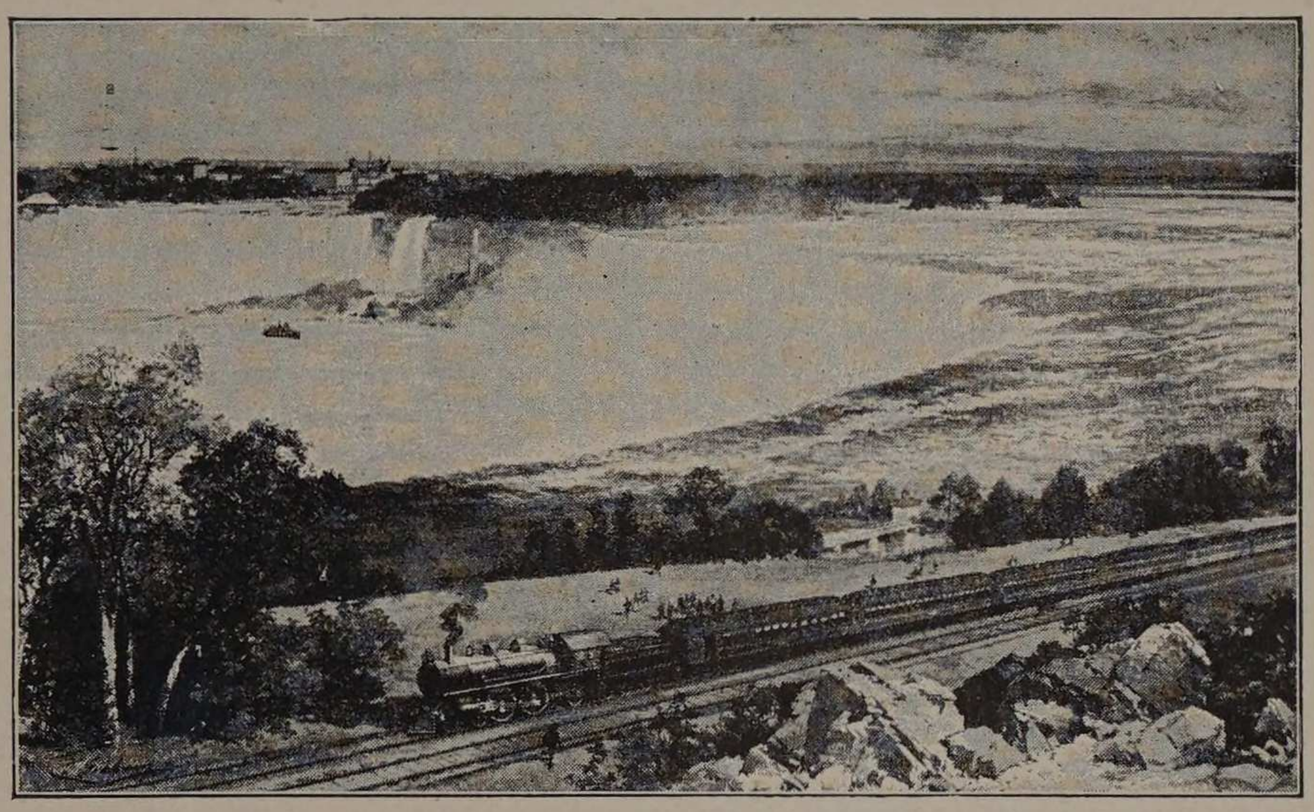
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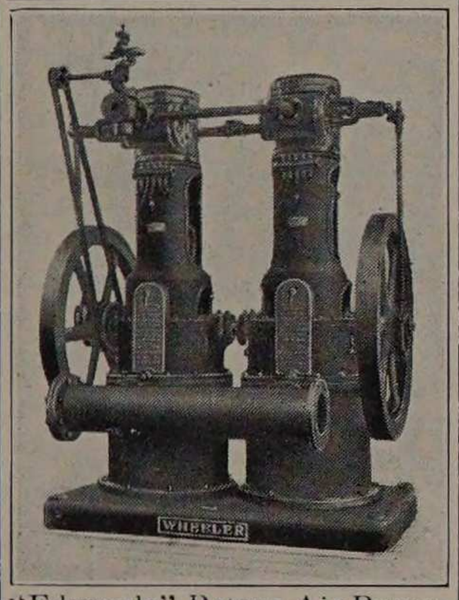
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1905.

May 19—Annual Home Spring Concert of the Glee and Mandolin Clubs in Armour Mission. Program thoroughly enjoyed by all present, which includes only 7 freshmen ('08).

May 20—Baseball: Tech vs. Kenton Athletic Club at Austin. Score: K. A. C. 4, A. I. T. 2. Tech track team scores 61 points against 71 made by Northwestern College at Naperville.

May 22—Nothing doing. Anyway Eyers says so and he knows.

May 23—Skidoo! Drafting Room vs. Tennis Courts at Washington Park. Victory for the Courts.

May 24—A. S. A. 5, Lake Forest Academy 0. Scalp number 11. White City opens. Many Armour students forget their cares.

May 25—"Willie" Jones trades names with L. B. Smith. No complications result.

May 26—Great excitement on State Street, a policeman seen running.

May 27—Dual track meet at Lansing, Mich. A. I. T. 38, Michigan Agricultural College 84. Academy defeats St. Vincents in baseball. Score: 16 to 9.

May 29—Paul Kamerer, Civil War Veteran, gives his address called "Reveille to Taps."

May 30—Academy plays Lake Forest Academy at baseball. Score: 4 to 2, as usual.

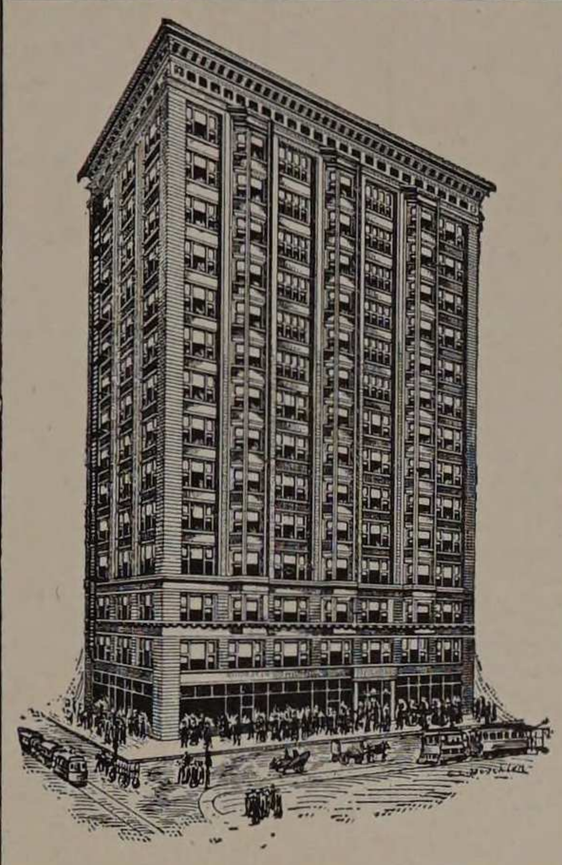
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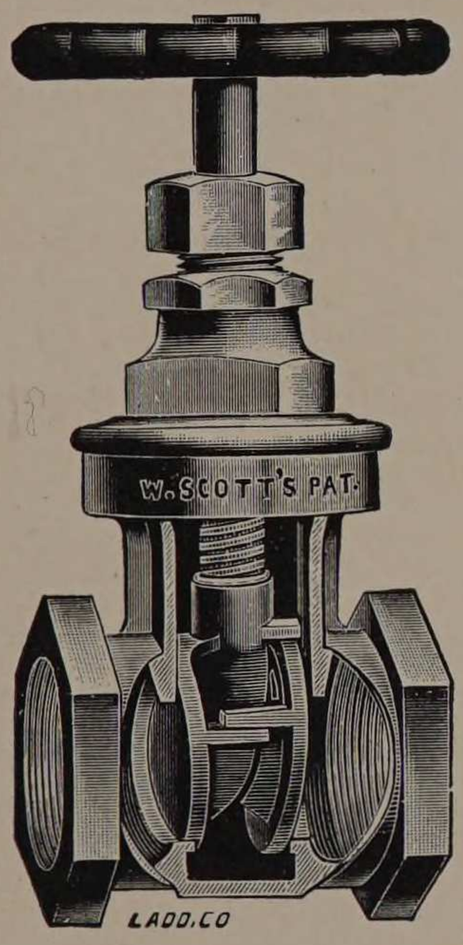
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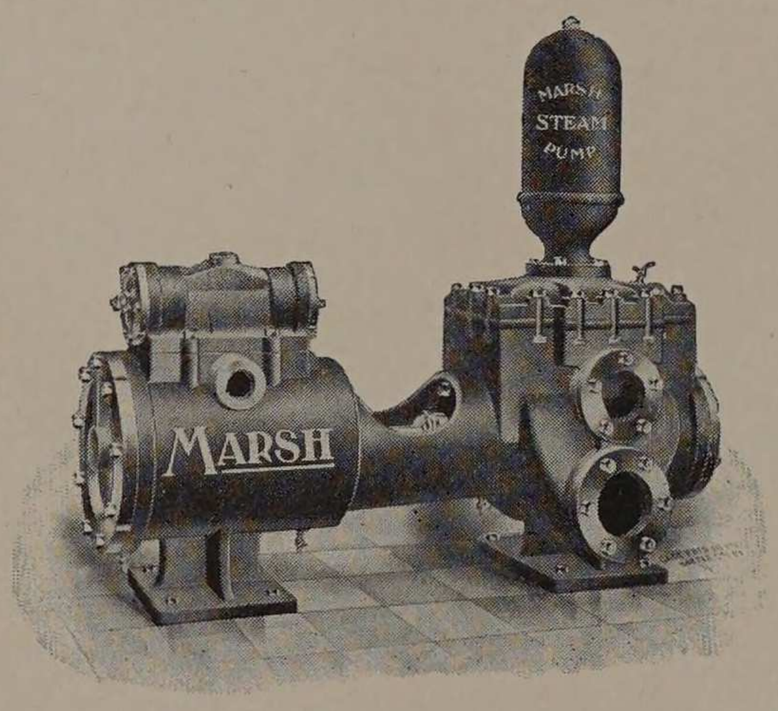
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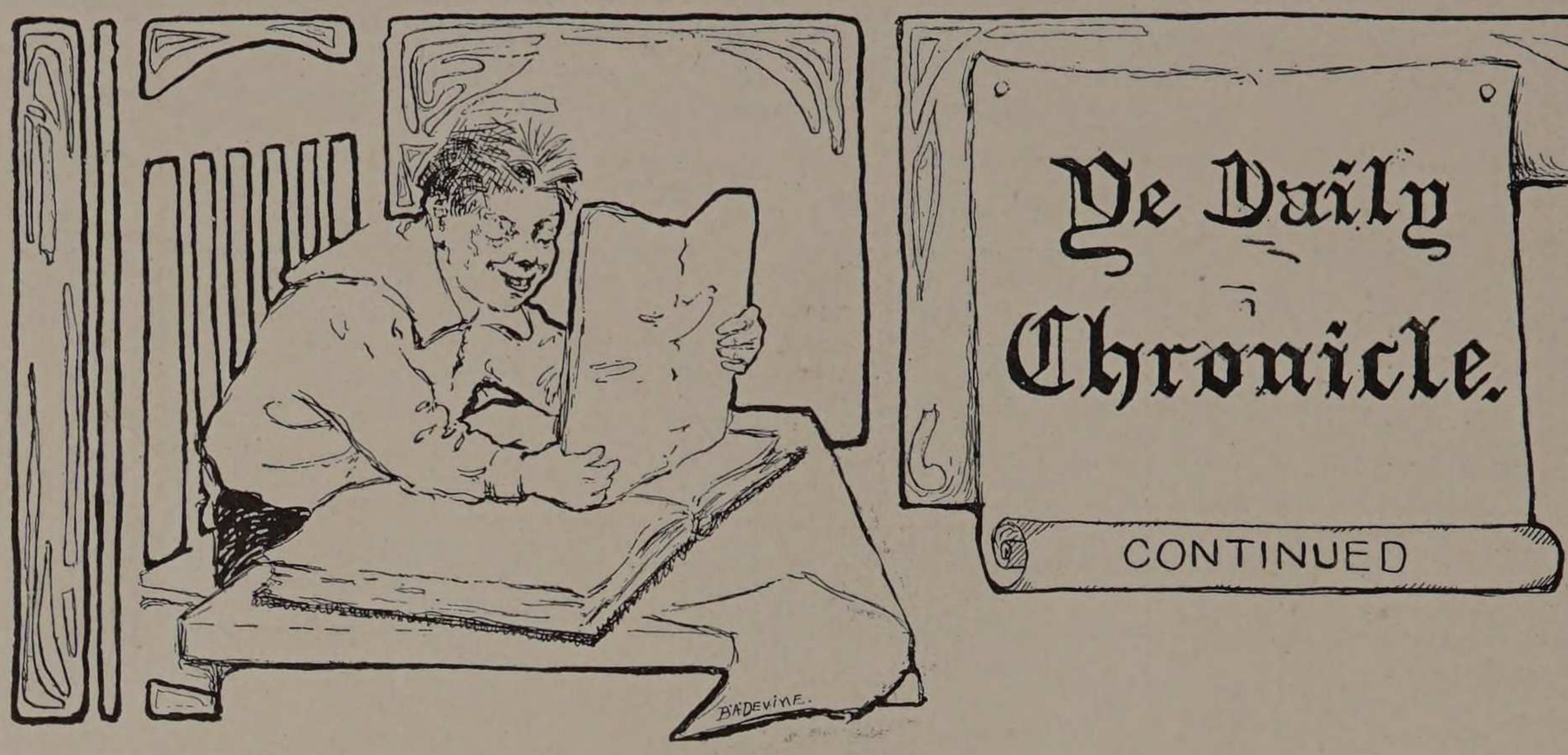
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1905.

June 1—Everybody working overtime. Only two more weeks of school.

June 2—High wind on the Lake. "Skipper" Smith casts anchor at the front door with his new rain coat.

June 3—Baseball: Tech vs. St. Ignatius. Score: A. I. T. 8, St. I. 10. Dual track meet on Ogden Field between Knox College and Tech ends in victory for the Tech. Score: 65 to 52.

June 4—Sunday. Streets of Chicago deserted—all students stay home to write up bulletins, etc.

June 5—Tech wins baseball championship of the West by defeating University of Chicago on Ogden Field. Score: 9 to 8. Swimming tank opened at Armour Square. Twenty-six Armour boys seize the opportunity of securing a free bath.

June 6—'07 defeats '08 in a baseball game on Ogden Field. Score: '07—8, '08—7.

June 7—"Commencement Number" of the Fulcrum appears. Academy defeats Morgan Park Academy by the score of 12 to 4.

June 8—Tech defeats Academy baseball team on Ogden Field. Score: A. I. T. 4, A. S. A. 3.

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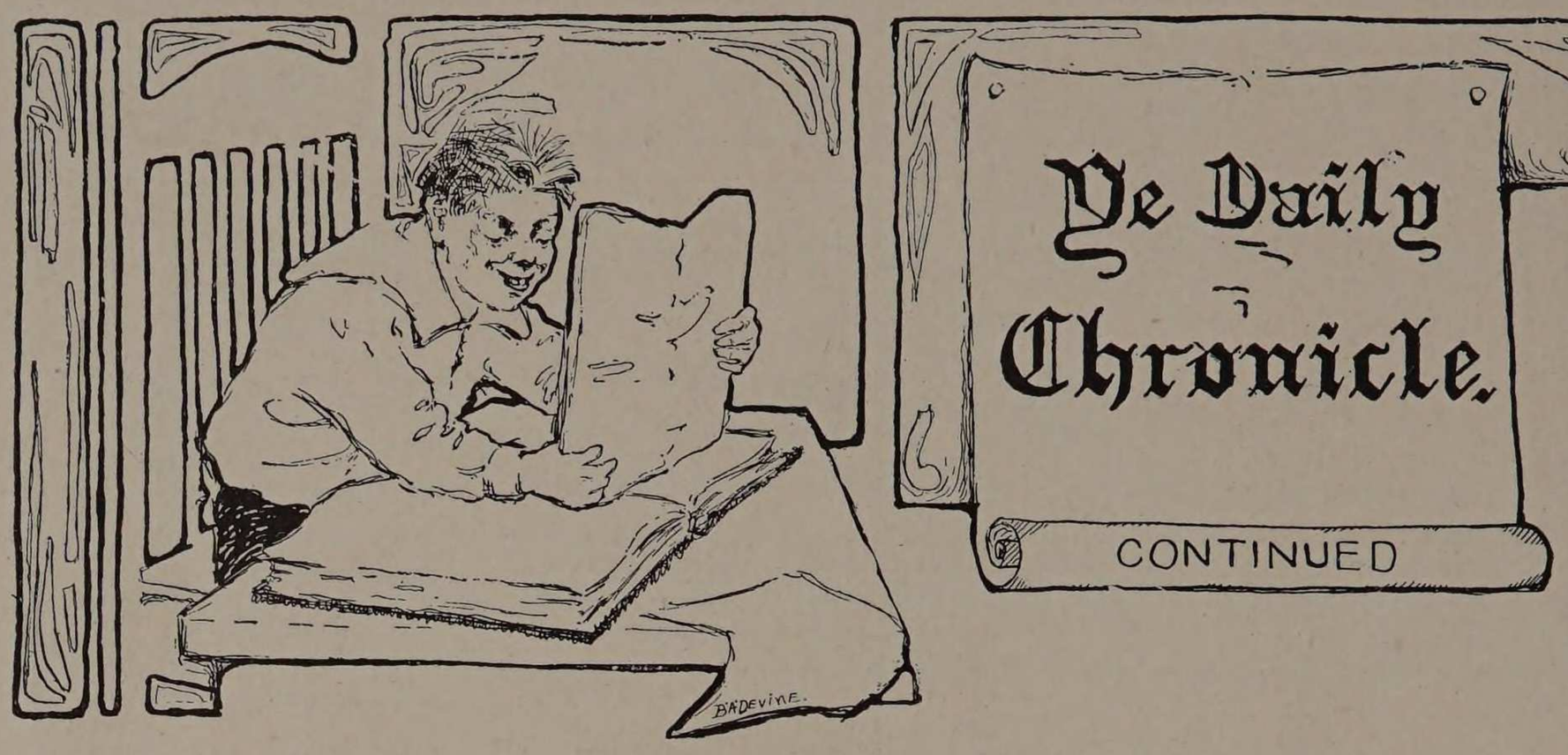
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1905.

June 9—Faculty shows Seniors a few points about playing baseball on Ogden Field in their annual game. Score: Faculty 13, Seniors 12—10 innings.

June 10—Banning forgets his slide-rule—goes home early.

June 11—Baccalaureate Sermon by Doctor Gunsaulus at Central Church in Chicago Auditorium.

June 12—First day of final exams. Desperate attempts made by out of town students to change programs in order to arrive home a few minutes earlier. Everybody works but ————.

June 13—Second day of finals. Alumni hold their banquet. Undergraduates capture "White City" by storm.

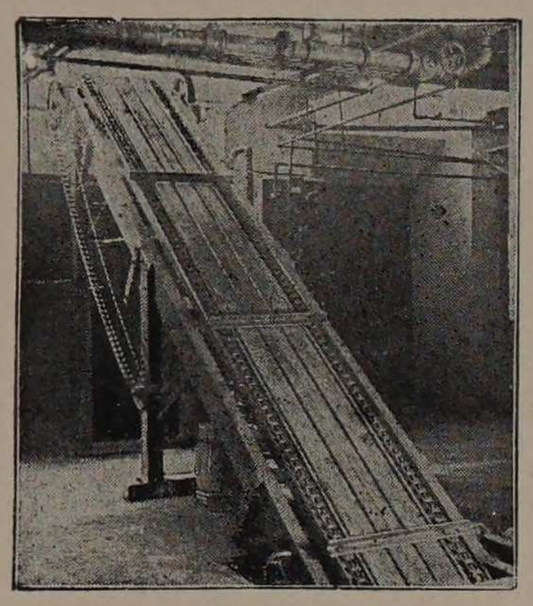
June 14—First Annual Outing of "Six for a Quarter Club" on board S. S. Indianapolis to Michigan City and return. Features: Good "segars" and the rail. Exams completed.

June 15—Commencement exercises. "Artie" Allyn shaves his mustache (?) and appears for the ceremonies.

June 16—Baker makes out Summer school program of 70 hours a week, thereby making it possible for him to graduate with '06.

June 21—Reports received. A few instances of wild rejoicing reported.

June 26—Summer school begins. Many present.



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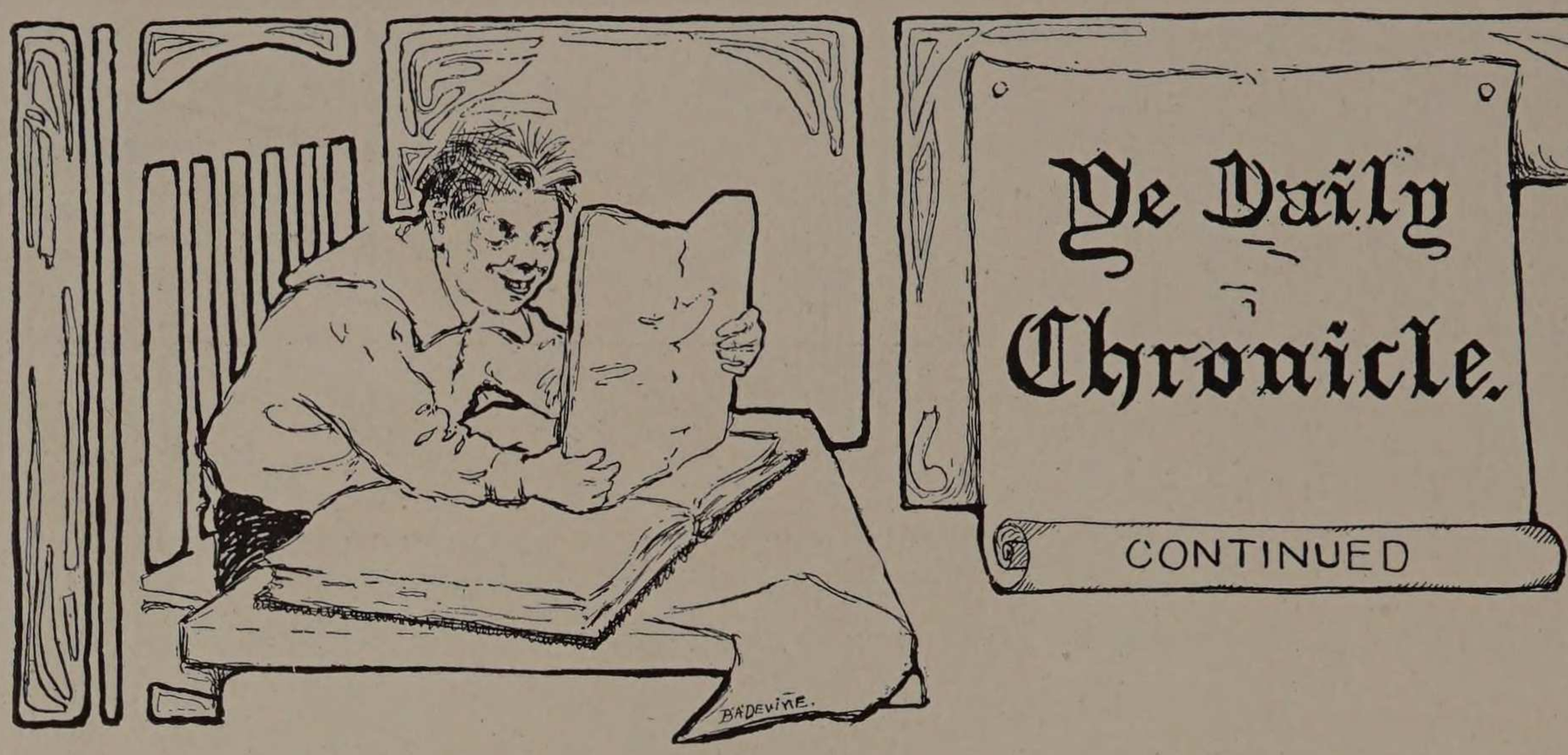
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1905.

June 28—Cupid journeys to Winchester, Mass., to complete one of his matches. Joslyn-Allen wedding.

July 4—Booming in great style. Morrison and Lurvey spend 11 cents for firecrackers and are not arrested for breaking the law.

July 8—E. J. Smith refuses to tell how many Sunday Schools he has superintended, etc.

July 15—Bright day in Physics Lab. Someone cleans the windows.

July 20—Swimming excursion to Armour Square. After waiting for two hours three fellows get in.

August 4—Summer School closes. Great rejoicing.

August 15—Another one of the "math profs" deserts bachelorhood. Professor Riggs is married to Miss Shafer at Columbia, Mo. Dr. Campbell begins to waver and is heard talking in his sleep.

August 31—Two more singles make a "two-bagger." Mr. Smart marries Miss King at Payson, Ill.

September 5—Clasen writes a chronicle of the "Lind case," namely: marriage of Miss Case to Mr. Lind in Upper Hamlin, Wis.

September 7—An embryo "math prof" gets married and adds one more to the list of married men in the '07 class. Congratulations, Clark.

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the attention of favorable comment to *your* college annual is the problem that confronts the editor.

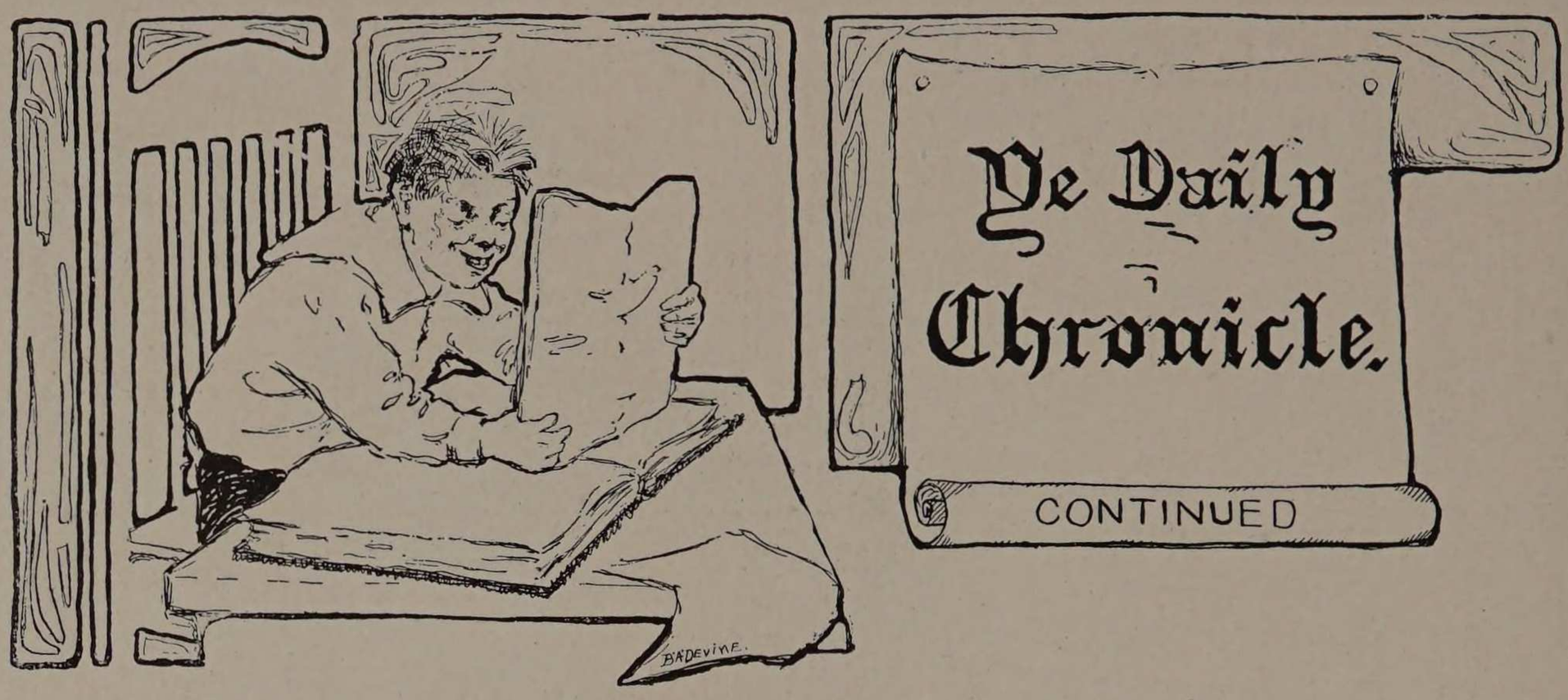
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1905.

September 18—Registration day. Many pleasant experiences related. Congratulations galore.

September 20—First Assembly of the term. President Gunsaulus addresses the largest body of students in the history of the Institute.

September 22—Y. M. C. A. Handshake in the Refectory (whatever that is). Good program and refreshments.

September 23—Football on Ogden Field. A. I. T. 16, R. T. Crane H. S. 0.

September 25—Something doing all night. Freshmen put up original posters and capture many Sophomores. Sophomores put out posters copied after those of Lake Forest College. Eyers, Jones and a few more of the '08 heroes (?) easily led into the arms of the Freshmen by two Juniors.

September 26—Annual class rush. Everybody home early for a bath at conclusion of the College Pow Wow.

September 27—Many familiar faces lop-sided. Nothing talked about except the rush. What's the use when the Tribune is full of it?

September 28—Nothing doing. Just a date, that's all.

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1905.

September 29—First issue of Volume IX of the Fulcrum out. Eyers talks confidentially to a few of the Sophs about the outlook for the paper. Ellington assumes the proverbial "thank-you-make-room-for-the-next-man" grin as he looks for subscriptions.

September 30—Armour Inn has an all night session. Regdab first up and best dressed. Time 1:12 P. M.

October 1—Archs meet and elect officers of "The Atelier."

October 3—Mr. Joslyn finishes a long demonstration in Math and Kilgore asks innocently "Have you finished that now?"

October 7—Tech meets Illini Scrubs in football at Champaign. Score: A. I. T. 4, Illini 11. Good exercise.

October 8—Gymnasium full of basket-ball enthusiasts. Reason. A. S. A. 31, Wendell Phillips H. S. 13.

October 9—Prof. MacFarland does not excuse Mechanics class early. To-morrow maybe.

October 10—'08 Class meeting. Sophs start to get up a football team to do up the Freshmen.

October 11—All-Academy Meeting in Science Hall. Fulcrum representatives elected.

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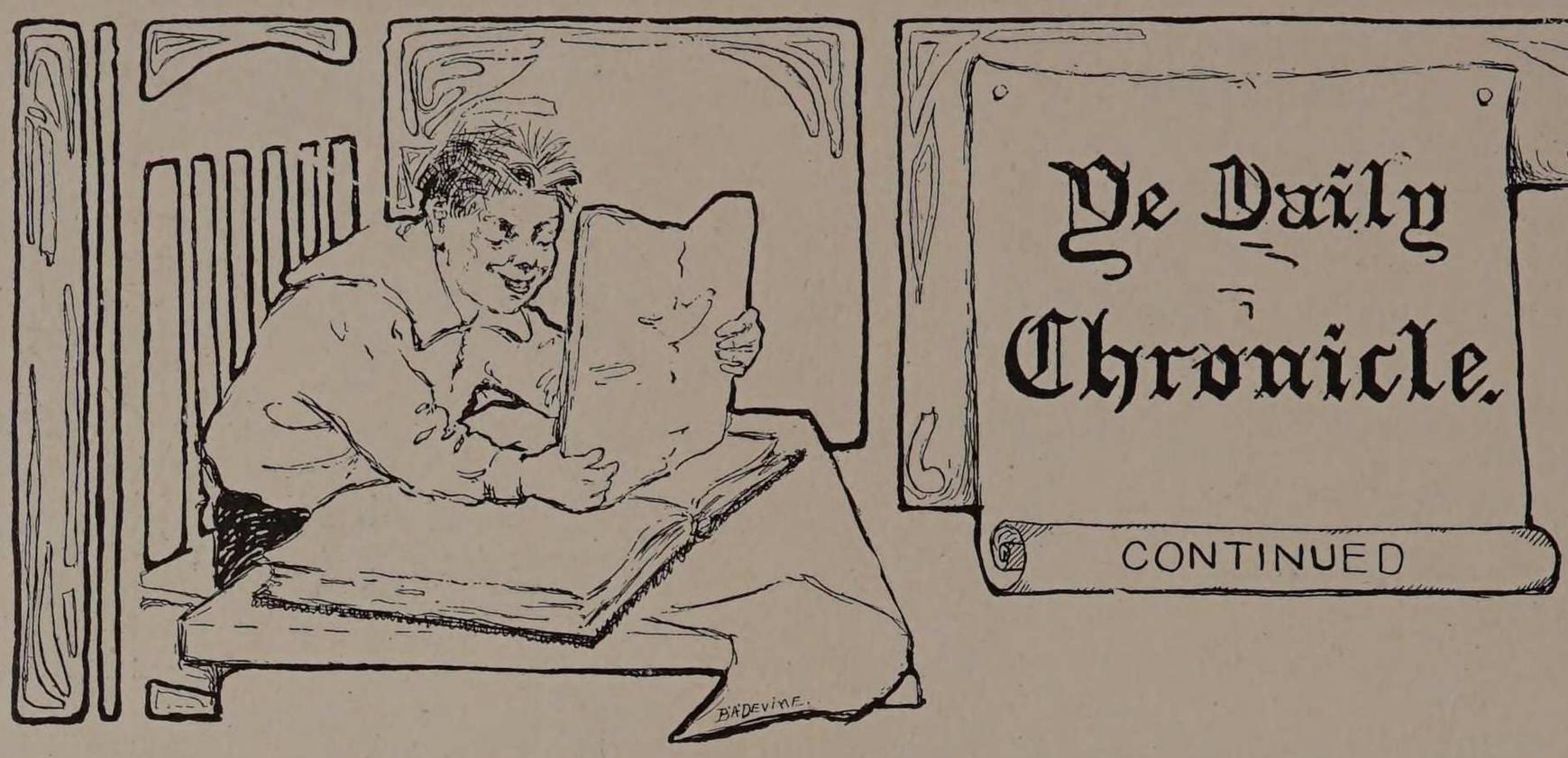
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1905.

October 13—Freshmen hold class meeting and elect officers. Academy again beats Wendell Phillips H. S. at basket-ball. Score: A. I. T. 25, W. P. H. S. 23.

October 14—Football at Lake Forest. A. I. T. 0, Lake Forest 6.

October 18—Junior Chemicals all attend class from 2-5 by absent method. Artie Geist finds a new theatre.

October 20—Bad luck. A. S. A. 20, South Chicago H. S. 39. Basket-ball.

October 21—Tech beats Northwestern College in a good game of football at Naperville. Score: A. I. T. 12, Northwestern 6.

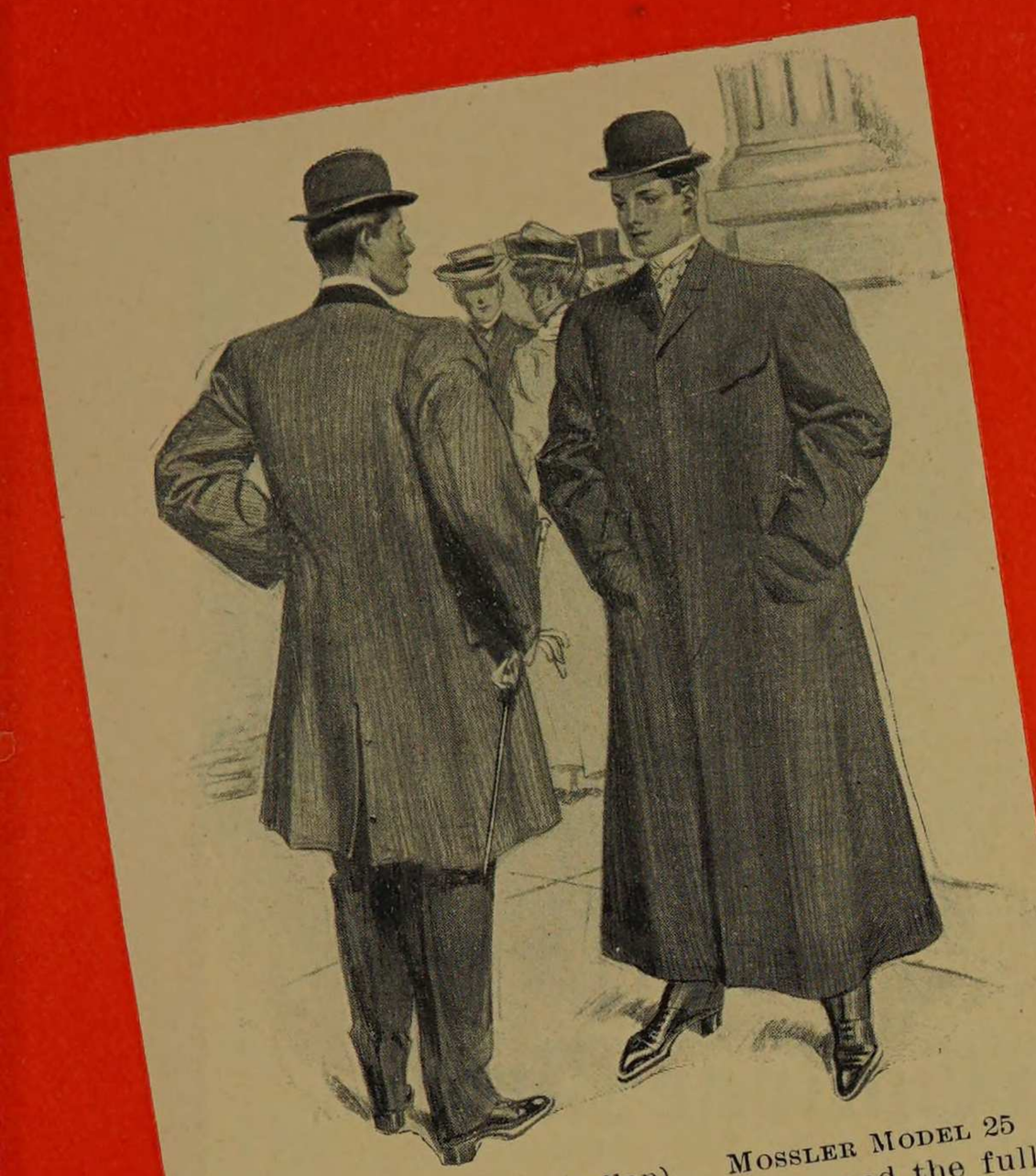
October 24—'08 Class meeting. Sophs worried about the game with '09.

October 26—October number of the Fulcrum appears. Academy '06 meet and elect officers.

October 27—Basket-ball in Gymnasium. A. S. A. 39, Calumet H. S. 14. Twenty-five points to the good.

October 28—Tech goes to Lansing to play football. Score: A. I. T. 0, Michigan Agricultural College 18. Professor Wilcox entertains Sophs in rooms C and D (Fulc. P. 83).

October 30—Sigwalt wears a white collar to school. Banning outwinds Professor Rice in a ¾-hour argument. Class sleeps peacefully.

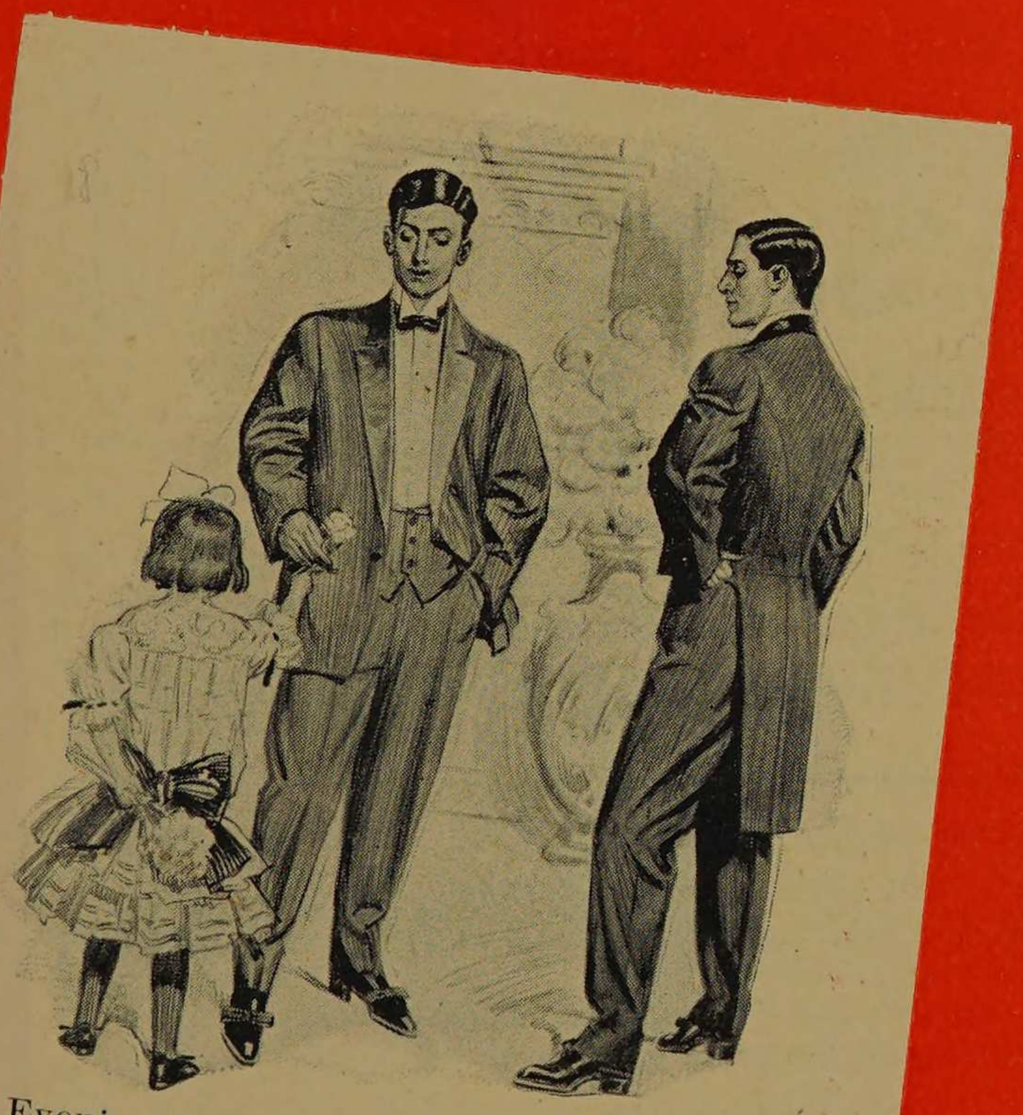


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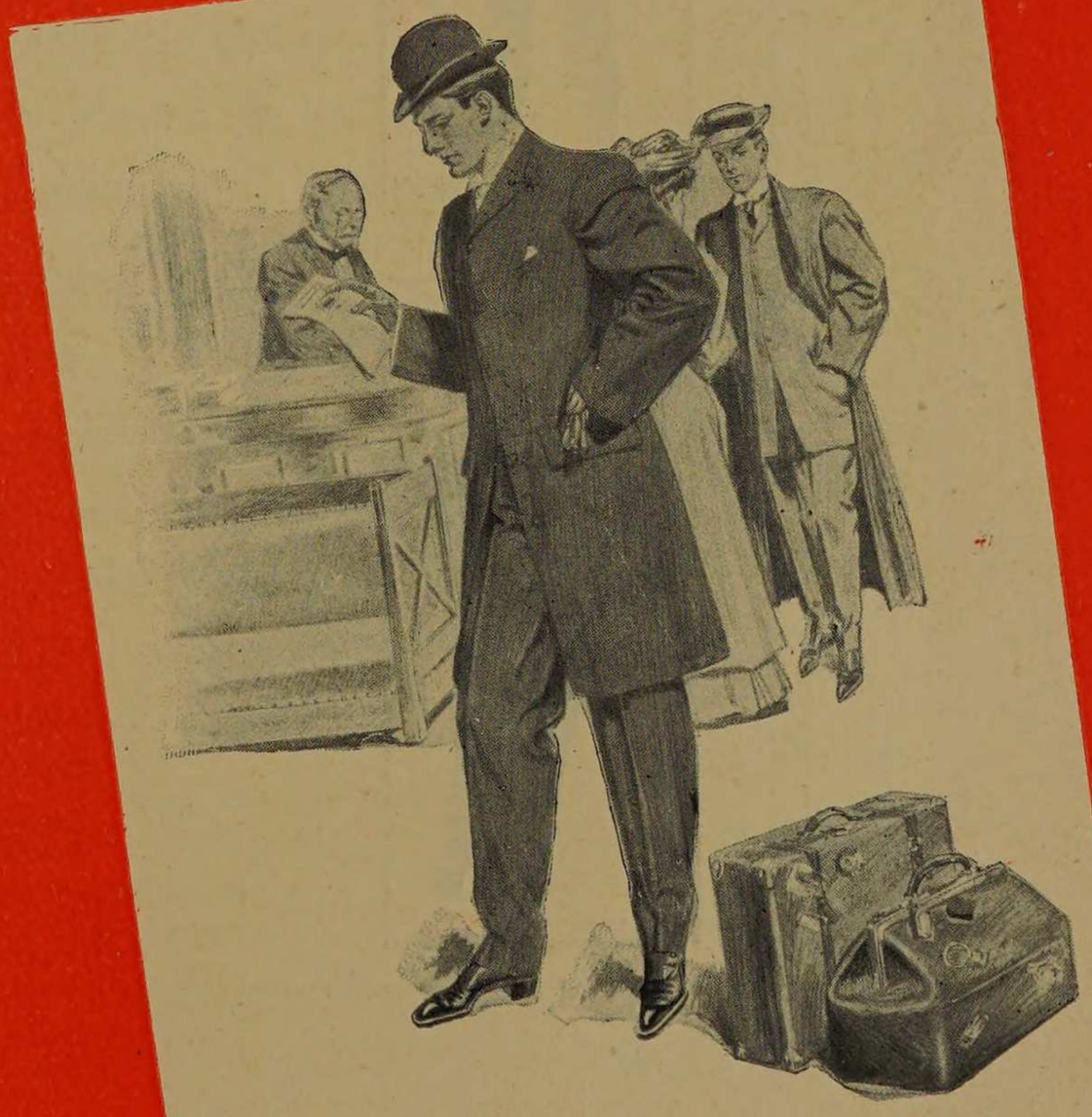
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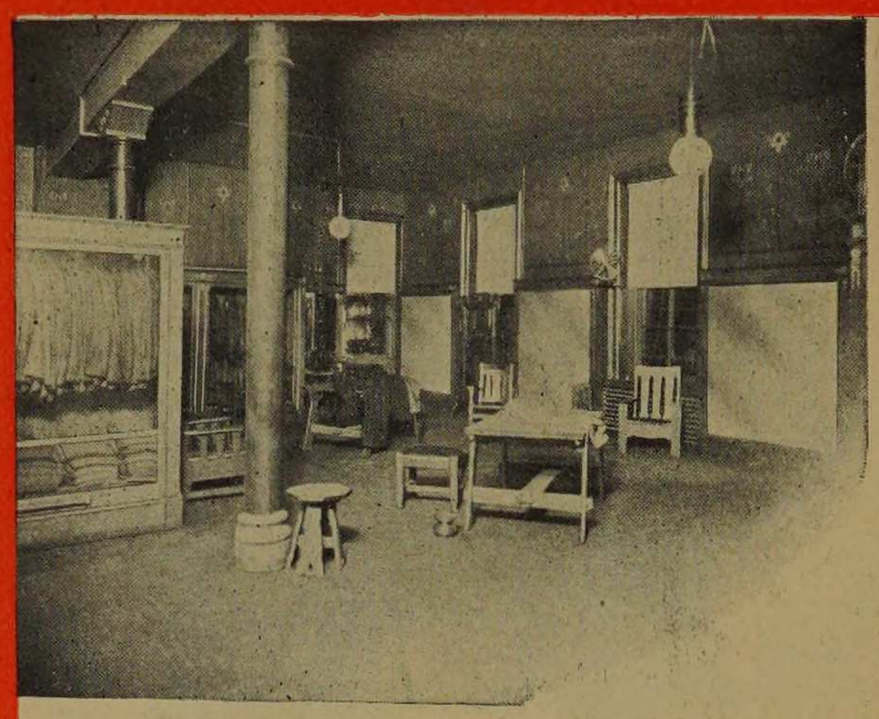
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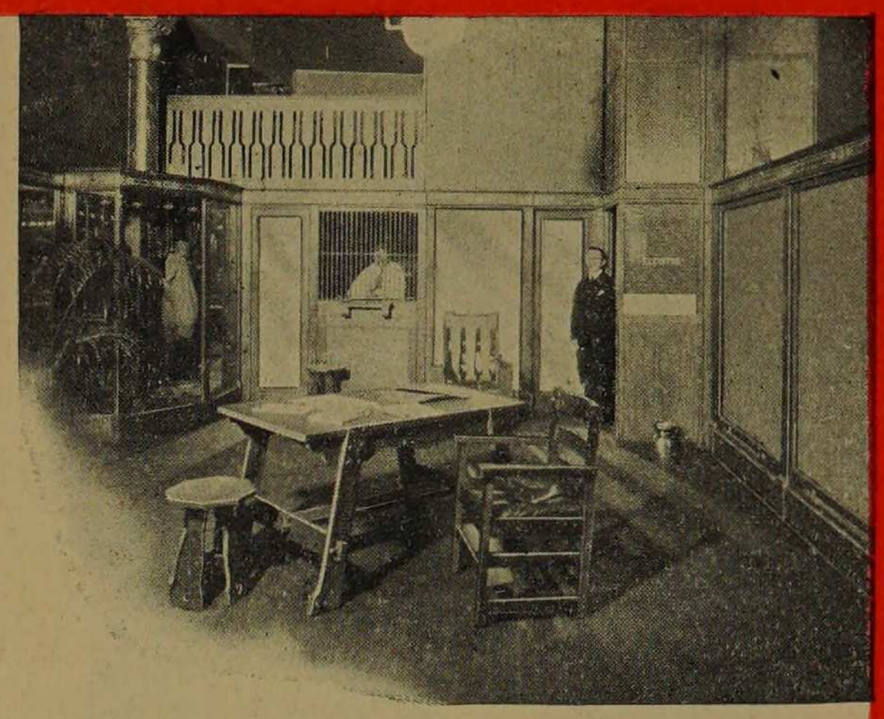
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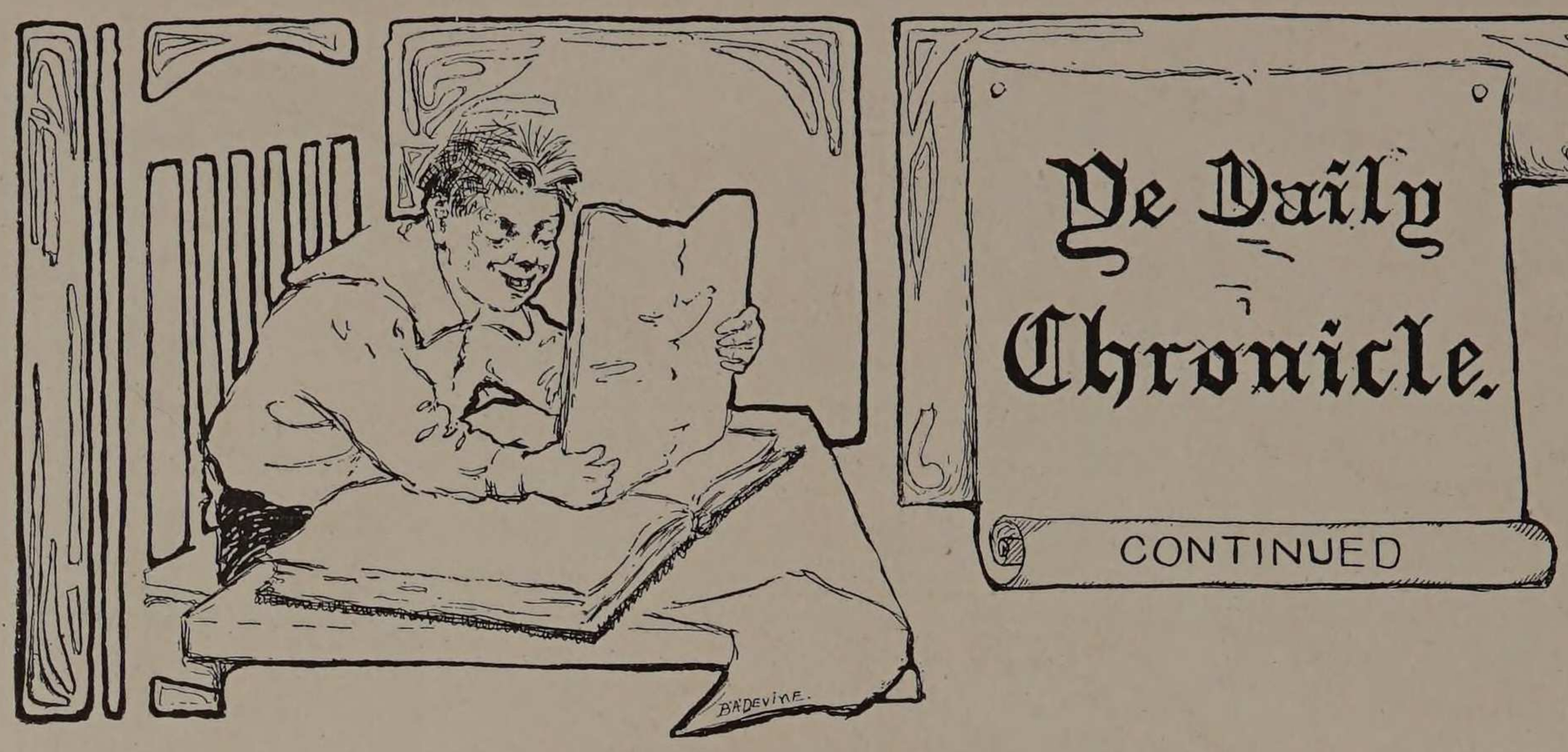
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1905.

October 31—Weedy Hebard gets to Economics five minutes before the class is over. He explains to Dean Monin afterward.

November 1—Weedy drops Economics temporarily.

November 2—R. A. Morrison takes his sweater out of "hoc" and wears it to school. Sure sign of cold weather.

November 3—Freshmen show Sophs some stunts in football. Classical Score of 23 to 0 in favor of Freshies. Juniors defeat Seniors in a free for all game between halves. Dean calls special meeting of '08 and '09, thus preventing a class rush at the game. A. S. A. '07 organizes.

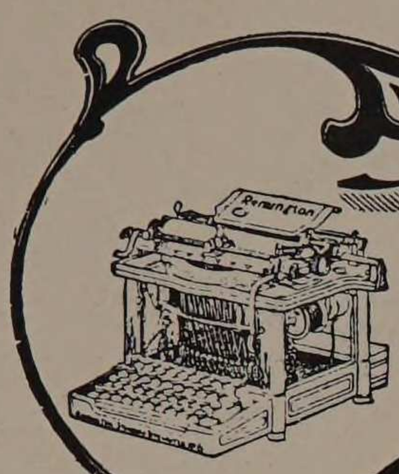
November 4—Football at Marshall Field. A. I. T. 2, Chicago U., 2nd, 17.

November 6—Heuchling does not say anything in Math. Probably asleep, though he says not.

November 8—Basket-ball game in Gym. A. I. T. 57, Medill H. S. 12.

November 10—Annual Freshman Smoker at South Side Turner Hall. 600 attend the best one in the history of the school. "Lobster chair" much in evidence. Special van brings Prof. Coffeen's masterpiece, "At Armour Institute of Technology."

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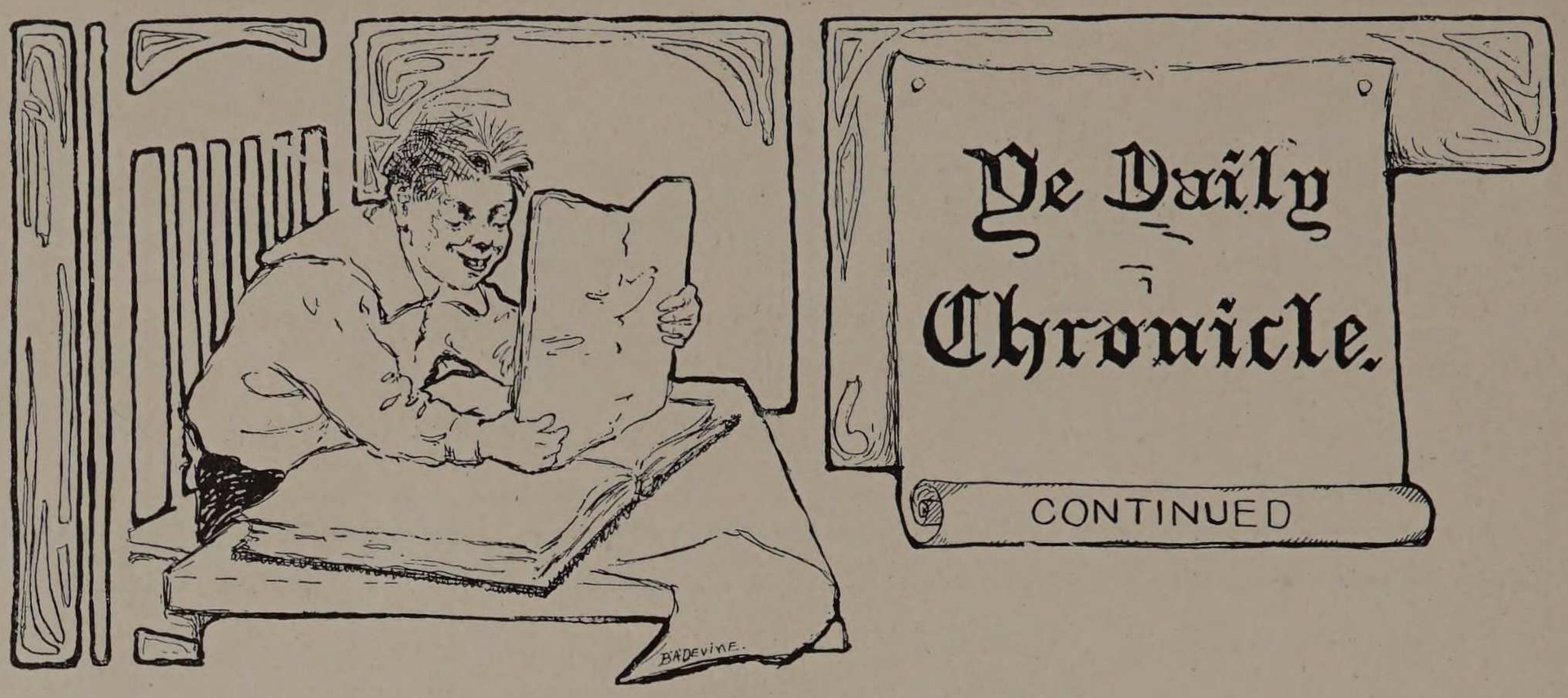
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1905.

November 11—Walter Camp seen on corner of Archer Avenue and Wentworth at 2:00 A. M. smoking a five-cent "segar" and waiting for the next train south. Tech defeats St. Viateurs at football—12 to 6.

November 13—Brock caught without his smile while coming out of Mechanical Laboratory. Why?

November 16—November number of Fulcrum appears.

November 17—Y. M. C. A. Social at "the house." Thirty people passed the evening with music, games, and refreshments. Basket-ball in the Gymnasium. A. S. A. 23, South Chicago H. S. 20. Radical X Banquet at the Union.

November 18—College basket-ball team 51, Austin H. S. 22, in the Gymnasium. Tech football team defeated on Ogden Field by Illinois Freshmen. Score: A. I. T. 0, Illinois Freshmen 18.

November 21—'08 class meeting. Decided to raffle '08 football and send flowers to Dr. Campbell.

November 22—Irving Odell feeds '08 Radics. Later they attend the theatre. Academy defeats Englewood High in Gym. Score: A. S. A. 40, Englewood High 14.

November 23—New arrival in the instrument case. Invoice: one cat. Incidentally C. U. Smith drops Economics temporarily. Two out.

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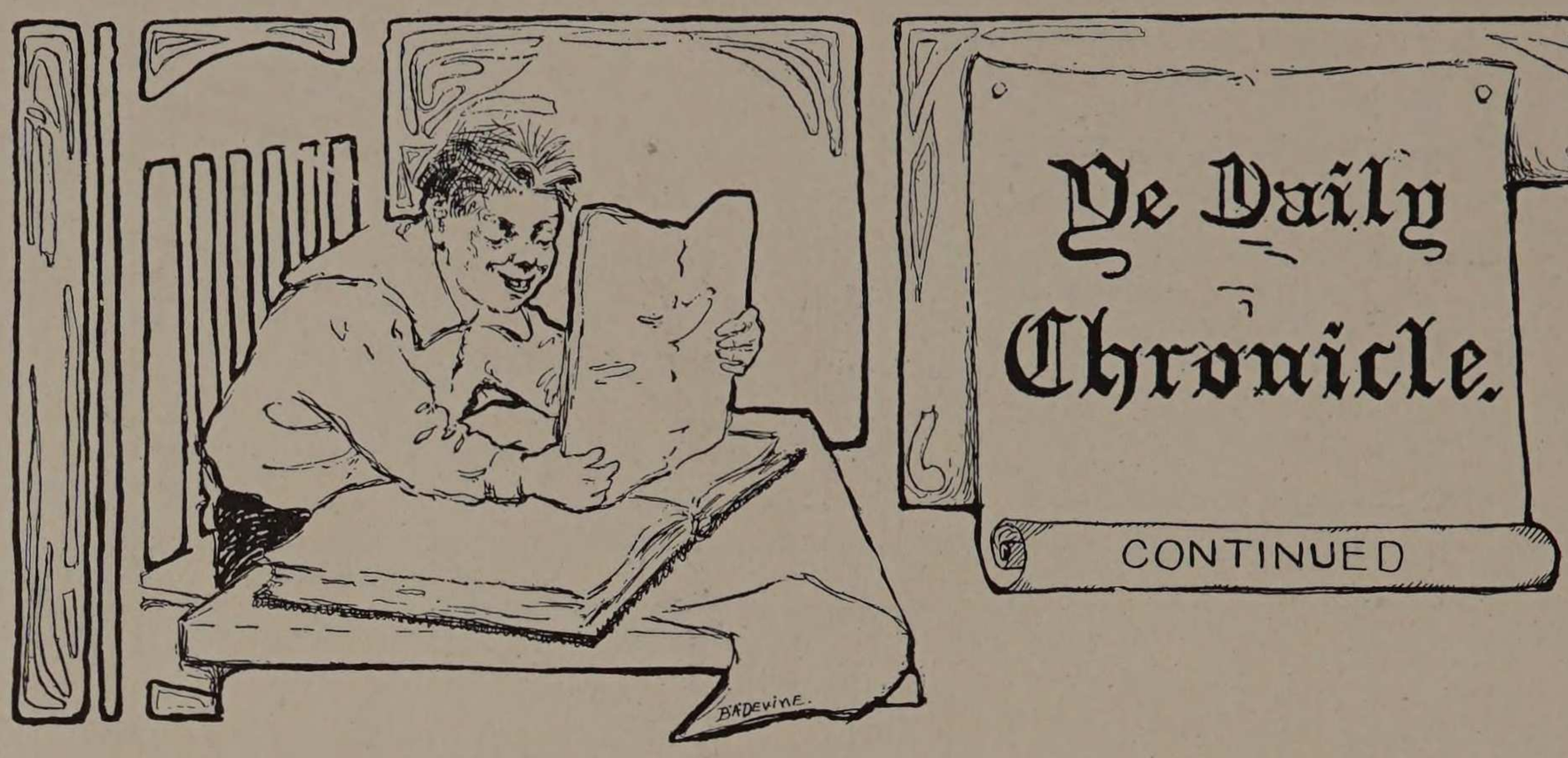
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1905.

November 24—Rev. Poon Chu addresses the students on "The Future of the Chinese in America" and "The Chinese Exclusion Law." Basket-ball in the Gym. A. S. A. 52, Lake High 14. Also A. I. T. 13, West Side Y. M. C. A. 36. Juniors and Seniors of College addressed by Mr. H. H. Gross of the American Locomotive Equipment Company on "Elements of Success."

November 25—Tech football team meets Rose Polytech on Ogden Field. A. I. T. 0, Rose Polytech 6.

November 26—Walbridge and Laubach eat their last meal before Thanksgiving. Saving space for the event gives them a head start.

November 28—'08 Football raffled at the "refectory." Parry holds the lucky number, 33. Profits, less commission to Eaton, $14.98.

November 29—Camera Club holds meeting in Club Room. No exposures made.

November 30—Tech plays last game of season at Culver. Score: 0 to 0. Team gets Thanksgiving Dinner at Culver (?). Drawing boards work overtime. Contest for A. I. T. Emblem prize closes.

December 1—Drawing boards still working heavily. Mr. Jas. E. Ritchey resigns his position on the faculty on account of constantly failing health.



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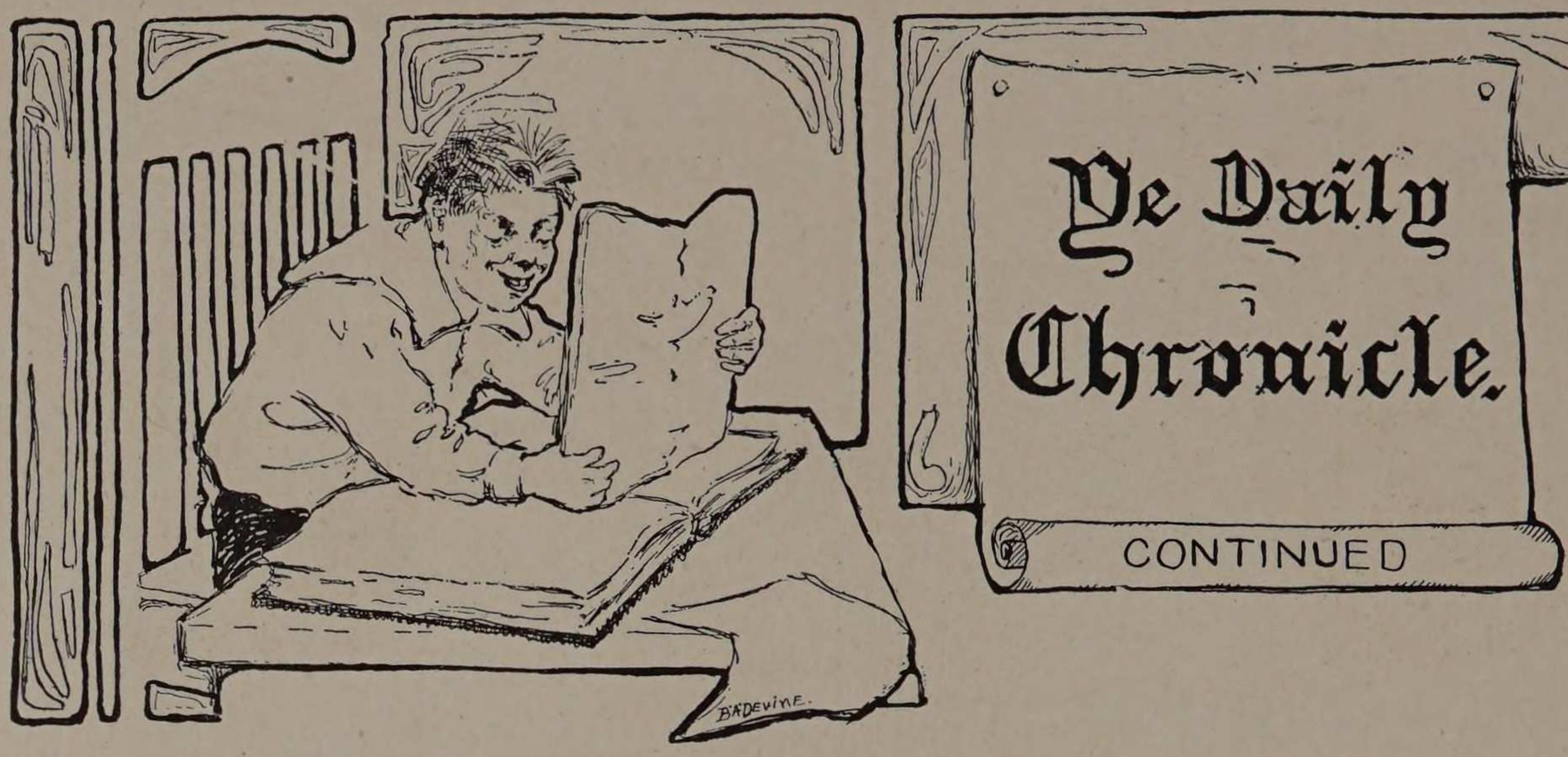
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1905.

December 2—College basket-ball team plays Wheaton at Wheaton. Score: A. I. T. 11, Wheaton 36.

December 8—Assembly for both college and academy students. Dr. Gunsaulus gives an address on "Savonarola." Junior Class meeting. Junior dance discussed. "C. U." gives us a few minutes of his precious time. Basket-ball in Gym. A. I. T. 29, Central Y. M. C. A. 50.

December 9—Senior dance at Englewood Masonic Hall. Music by Ballou.

December 11—'08 Class meeting. Eyers resigns his position as Editor of the Fulcrum on account of outside work. E. H. Stillman chosen to fill the place.

December 12—First copy for 1905-06 Integral received. Author receives a medal. Christmas number of Fulcrum appears.

December 13—Fall term examinations begin. Prayers are offered. Horse Show at A. I. T. Many ponies are entered.

December 14—Examinations continue. Prayers ditto.

December 15—Examinations concluded. Thanks offered. Fall term closes.

December 16—Holiday vacation is on. Want ad column searched by students.

December 23—A. I. T. Alumni banquet at Vogelsang's; over 200 plates. Dr. Gunsaulus announces the dissolution of connection between The American School of Correspondence and A. I. T. Enthusiasm shown.

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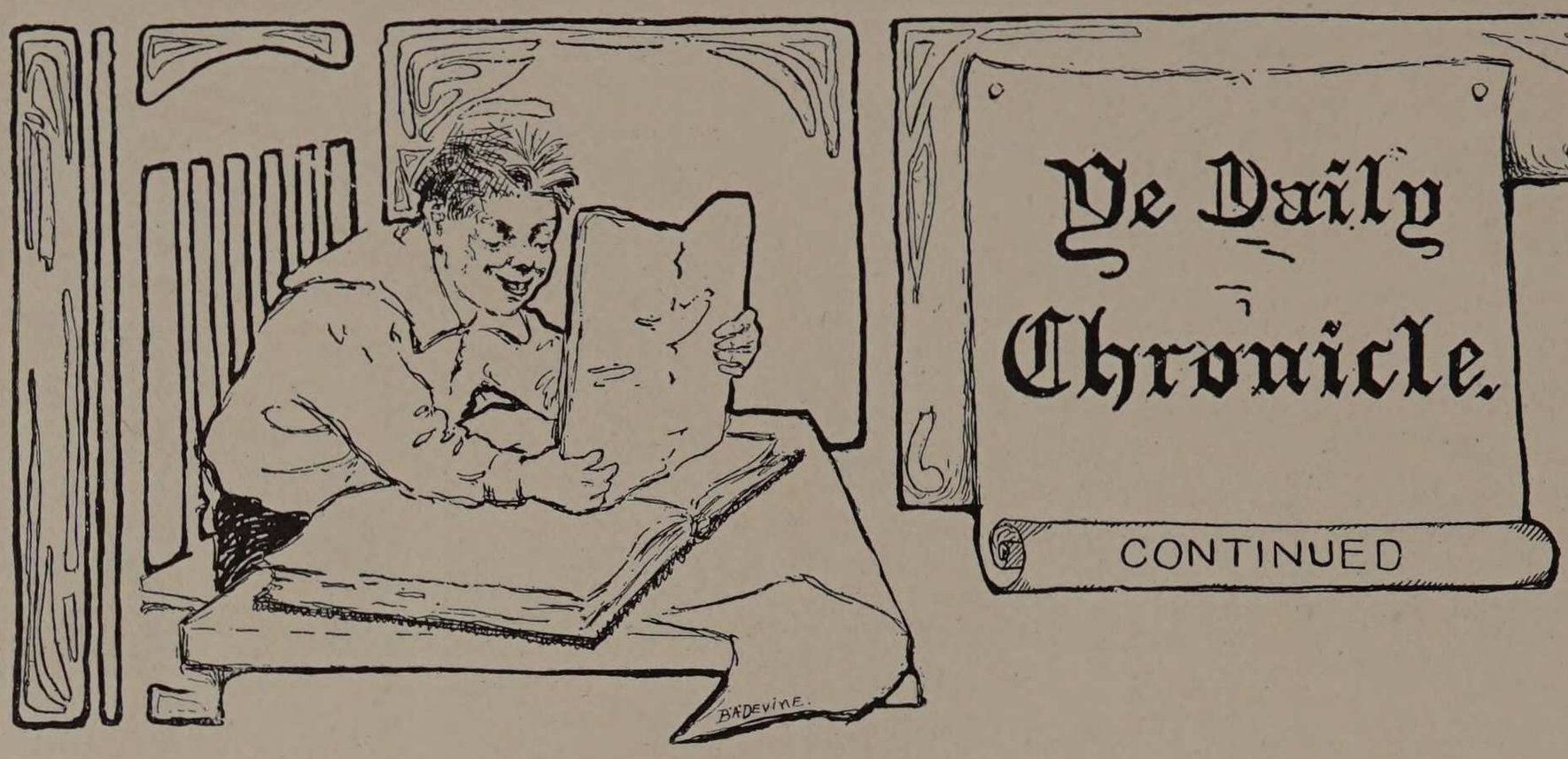
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1906.

January 2—Registration day. Winter term commences.

January 3—Kilgore has a new story. Soon gets old.

January 6—First advertising contract for 1905-06 Integral signed.

January 9—Junior Class meeting. Dance discussed and decide to give it at the Colonial Club February 2.

January 11—Senior Class meeting. Committee on photos and Integral representatives elected. Basket-ball in the Gym. A. I. T. 40, Chilocco Indians 29.

January 12—Academy Debating Team meets Northwestern Academy at Evanston. Decision given in favor of Northwestern.

January 13—Basket-ball at Elgin. Score: A. I. T. 22, Elgin Y. M. C. A. 30.

January 14—Henning only goes to Church fives times today.

January 15—Electrical Show opens at the Coliseum. Many of the students listen to vivid descriptions (by visitors) of the manufacture of green amperes. Statement also heard that the large transformer in one of the exhibits produced 1,000,000 ohms.

January 16—One of the Faculty and wife in distress at the Electrical Show. One of the students gives pecuniary aid which enabled them to reach their home. Student does not think it necessary to go to Physics Lab. next day. '06 Civils banqueted at Greifenhagen's.

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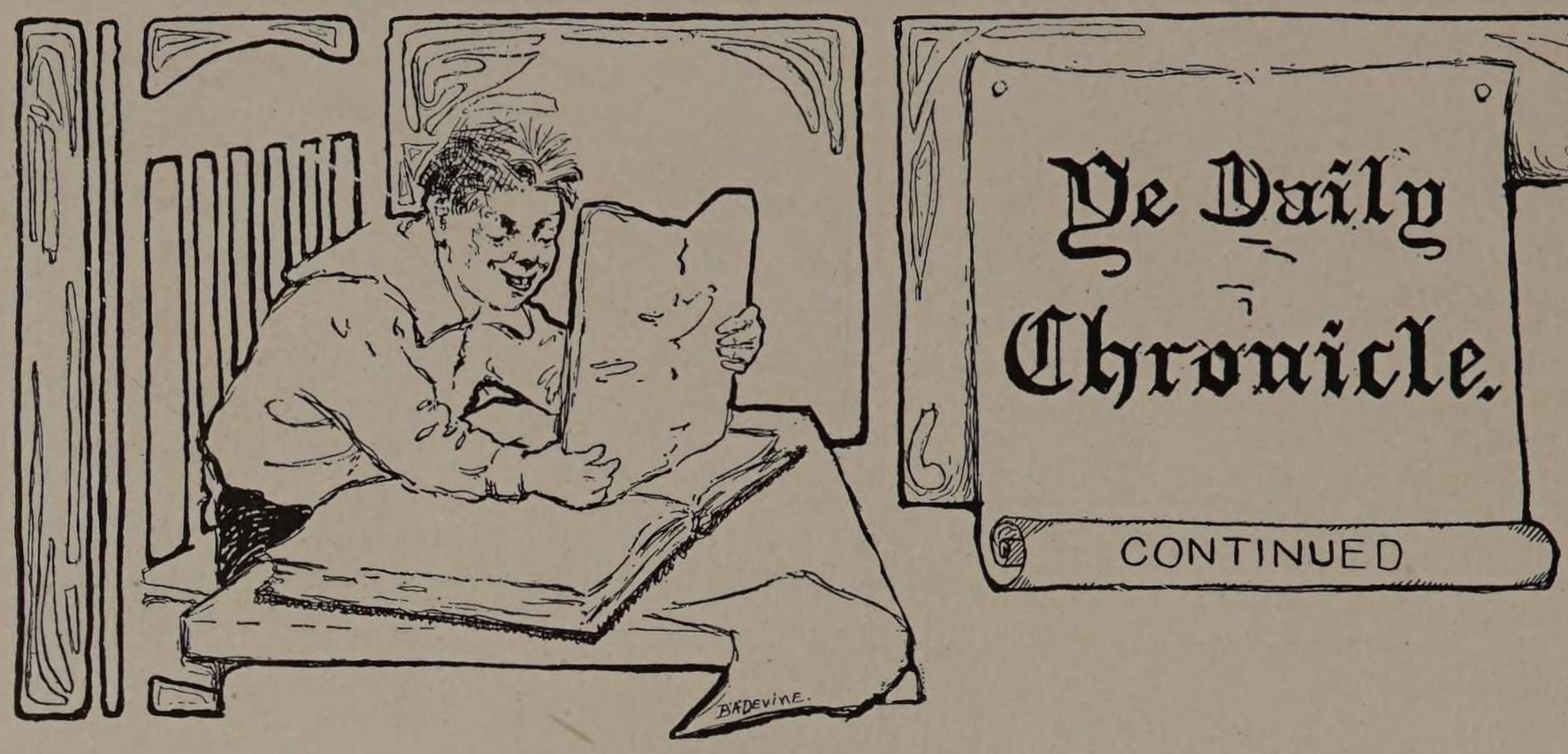
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1906.

January 17—Mr. Arthur L. Rice, Editor of "The Engineer," addresses the Juniors and Seniors of the College on "Superheated Steam."

January 18—Senior Class meeting. January number of the Fulcrum out.

January 19—C. Bradley Tibbetts visits his old haunts at the Institute. He seems to have stood the walk well. Basket-ball: College vs. Wisconsin in the Gym. Score: A. I. T. 15, U. of W. 37. "Armour Night" at the Electrical Show.

January 20—Tech basket-ball game in the Gym. Score: A. I. T. 47, Port Washington 74.

January 22—Another week begins. L. B. Jones promises faithfully to appear for his drafting period from now on.

January 24—Rev. Lyman Abbott, Editor of the "Outlook," addresses students on "The Influence of College Training on Everyday Life and the Elements of Success."

January 25—Sophomore Class meeting.

January 26—Freshman Class meeting.

January 30—Junior Class meeting. Dance report presented and managers of class basket-ball, baseball, and bowling teams elected.



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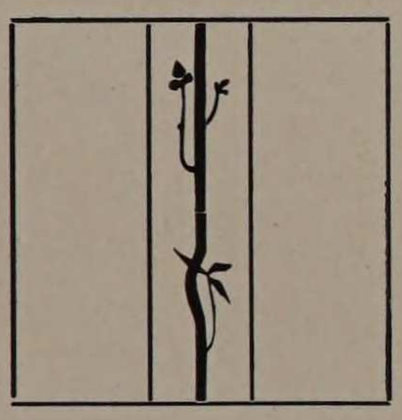
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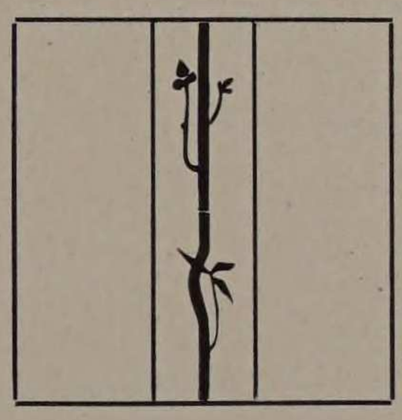
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1906.

January 31—Freshmen Class meeting. Election of managers of basket-ball and bowling teams and chairman and auditor of social committee.

February 2—Students given a musical treat in the Mission. Recital by Mr. D. Protheroe, composer and baritone, assisted by Mr. B. Weber, pianist. "Philadelphia" loudly applauded. Basket-ball in the Gym. A. I. T. 41, Elgin H. S. 24. Junior Informal at the Colonial Club. The event of the season. Dean Raymond, Mr. F. U. Smith, and 130 couples attend.

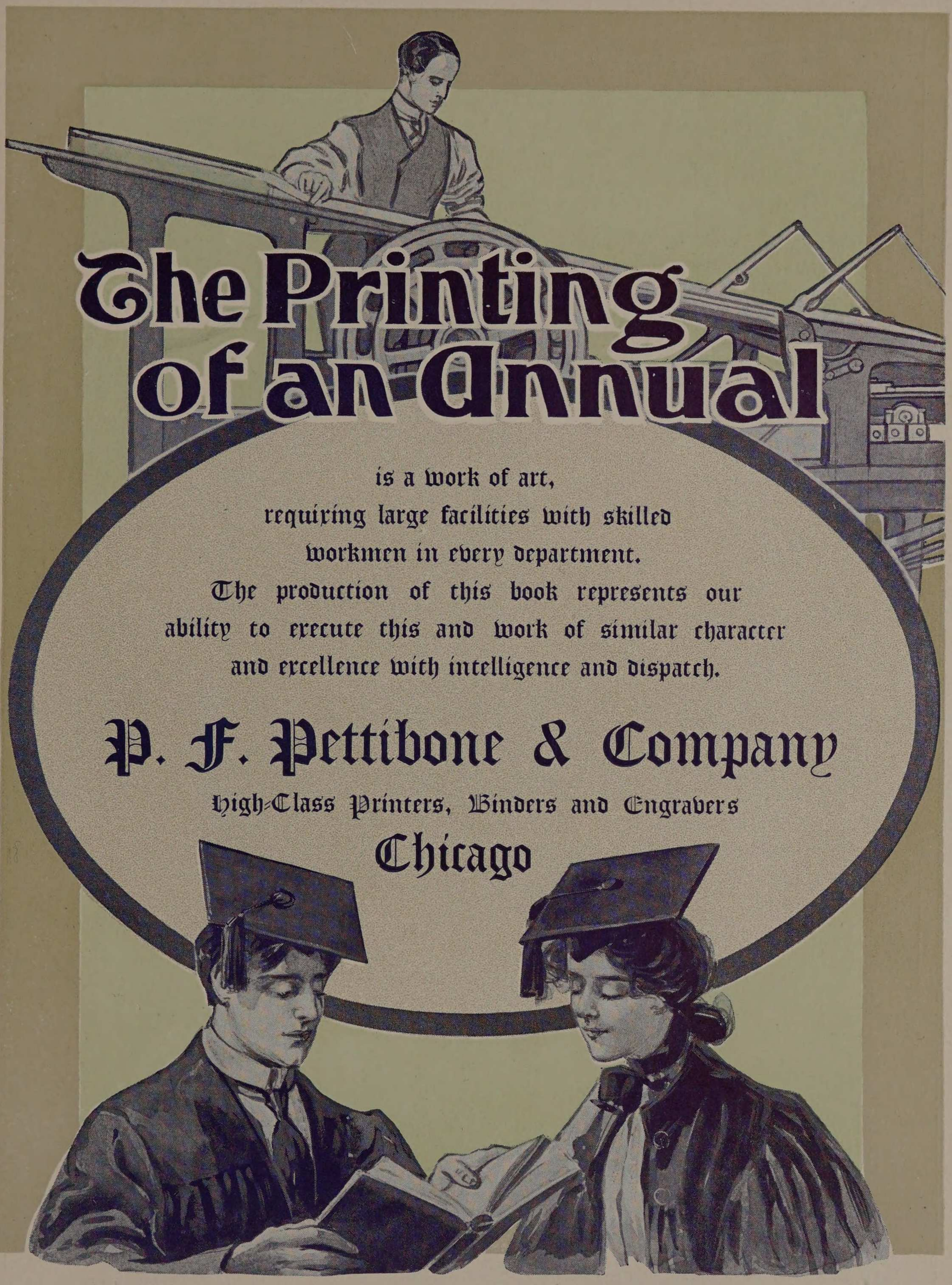
February 3—Mr. W. T. Howell's house visited by a stork. Leaves a 9-pound girl.

February 5—Sophomore Class meeting. Election of managers of bowling and basket-ball teams and Integral representatives.

February 6—Senior Class meeting.

February 12—Assembly in the Mission. Dr. Gunsaulus speaks on "Abraham Lincoln." War songs by Mrs. Hodge, led by "Alf" Hodge, cornetist. "Doc" announces that there will not be any more school today—a pleasant surprise.

February 14—Radical X meeting. Election of Freshmen. "Dean" Howard gives out some "flunk" notices. He is not injured by those he slights.



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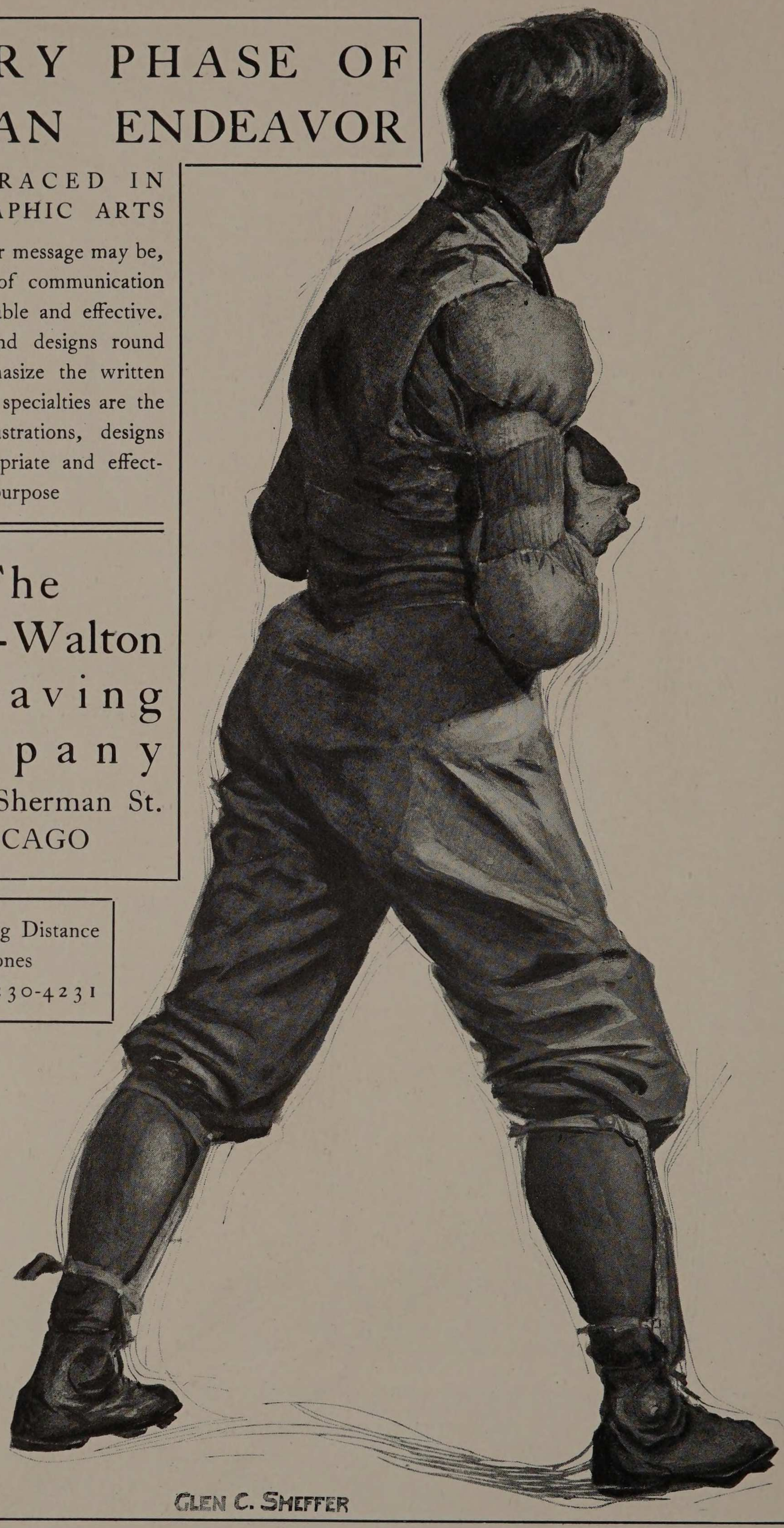
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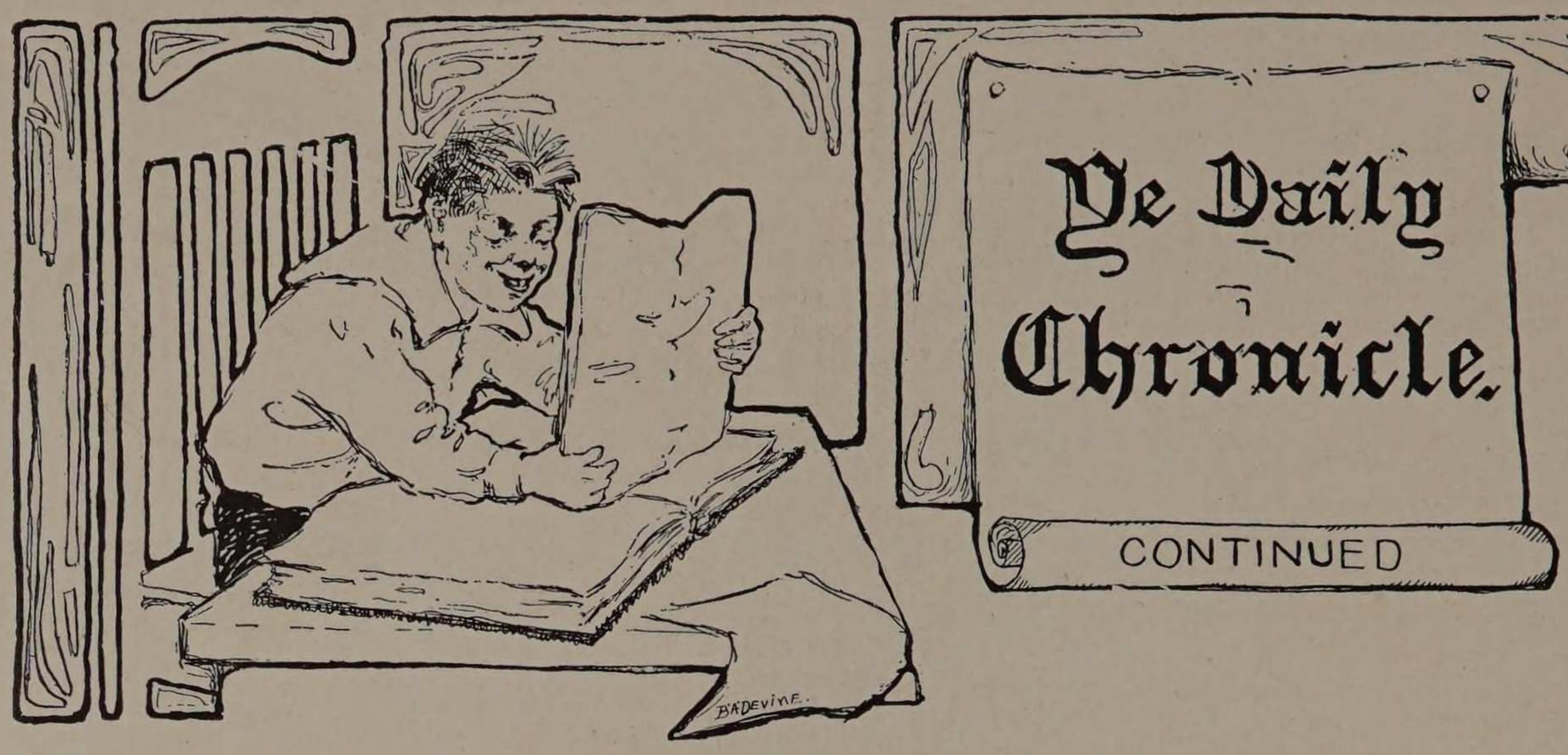
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1906.

February 15—"Academy Number" of the Fulcrum out today. Basket-ball in the Gym. Score: A. I. T. 25, University of Kansas 34.

February 16—Freshmen Class meeting. Election of Integral representative, track team manager, and deputy treasurer. Academy basket-ball team defeats Morgan Park Academy. Score: A. S. A. 38, M. P. A. 28.

February 21—Basket-ball in the Gym. between Tech and Lewis Institute. Score: A. I. T. 11, Lewis 36. Large crowd of rooters make things lively on both sides. The Faculty Club gives a reception to the ladies in the evening. Time well spent with musical selections, talks, and refreshments. Y. M. C. A. also gives a ladies' reception which is attended by a goodly number who enjoy the program of music, a lantern-slide lecture, and refreshments.

February 22—Academy gains a forfeited game from Northwestern Academy.

February 23—Meeting of Armour branch of A. I. E. E. Papers read on "Lightning Protection and Protective Apparatus."

February 26—Senior Class meeting, Academy. Elect Integral representatives and adopt a class yell.

February 27—Basket-ball at Naperville. Score: A. I. T. 23, Northwestern College 28.

The Continental National Bank of Chicago

STATEMENT AT CLOSE OF BUSINESS JANUARY 29, 1906

RESOURCES

Loans and Discounts	$32,188,171.44	
Stocks and Bonds	1,046,702.13	
		$33 234,873 57
U. S. Bonds to secure Circulation		3,000,000.00
Premium on U. S. Bonds		101,593.75
Overdrafts		3,065.17
Real Estate		233,606.13
Due from Banks and U. S. Treasurer,	$ 9,876,103.54	
Cash	14,744 242.90	24 620,346.44
		$61,193,485.06

LIABILITIES

Capital Stock paid in	$ 3,000,000.00
Surplus Fund	1,000,000.00
Undivided Profits	219,797.84
Circulation	2,998,100.00
Deposits	53,975,587.22
	$61,193,485.06

OFFICERS

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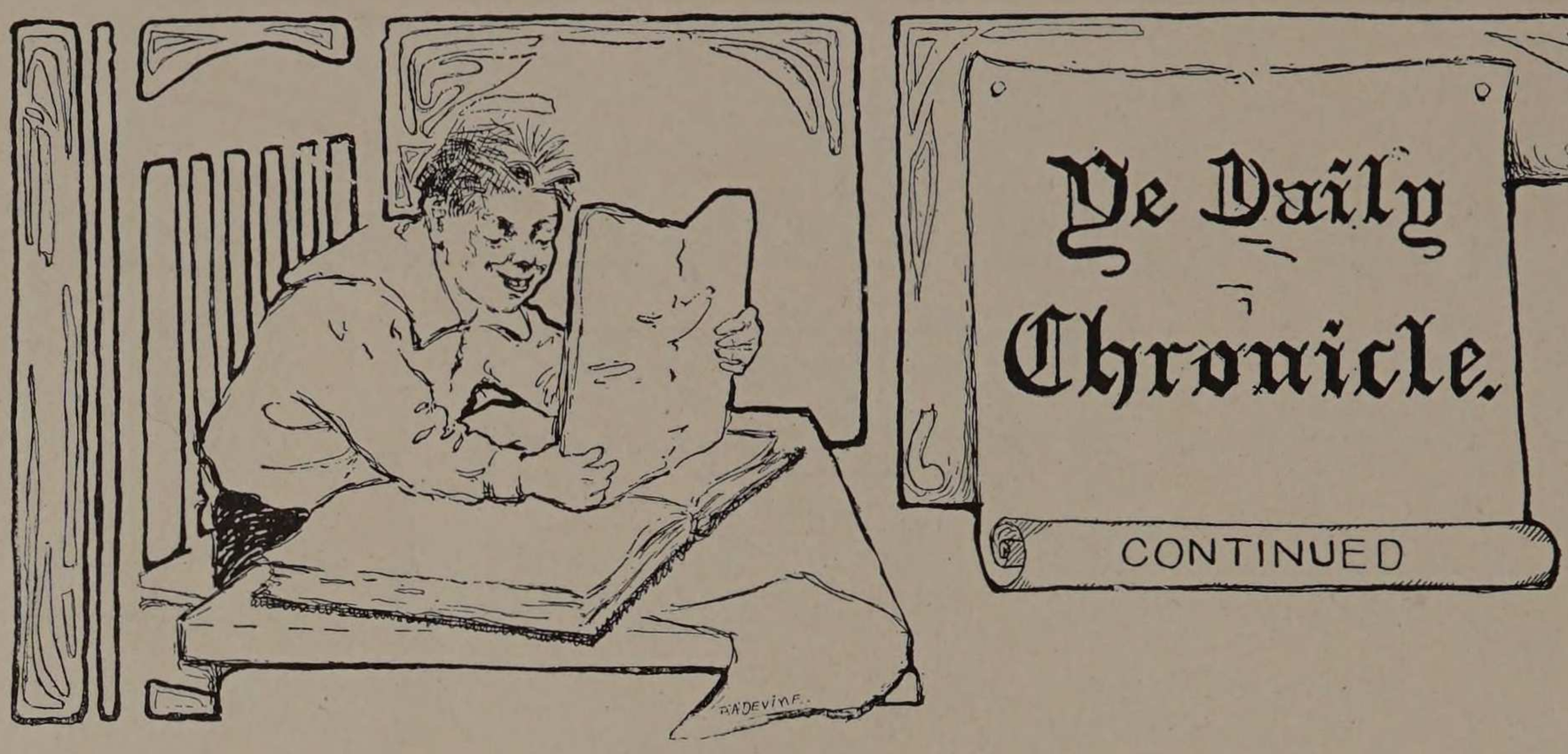
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1906.

February 28—Basket-ball in Gymnasium. A. I. T. 31, Lake Forest 18. Nebraska Club elects officers.

February 29—Whoa! There wasn't any.

March 1—Sophomore Class meeting. Managers of track and baseball teams elected.

March 2—Freshmen give dance at the Colonial Club. Music by Lawrence. Class pictures taken in Gym by arc light. College basket-ball team defeats Evanston Y. M. C. A. Score: 28 to 22.

March 5—Doc Campbell's hair begins to lose its color. Peg Woldenberg sells a fountain pen.

March 7—College basket-ball team plays Lewis Institute at Lewis. Score: A. I. T. 15, Lewis 45.

March 9—Atelier Banquet at Café Roma.

March 15—Freshman number of Fulcrum issued.

March 18—Harrington and Reker do not eat on State Street. Closed for repairs.

March 28—Dr. Campbell married to Miss Lou Rena Bates of Danielson, Conn.

March 31—Mr. Jos. Howard leaves the Institute to accept a position with the Illinois Steel Co.

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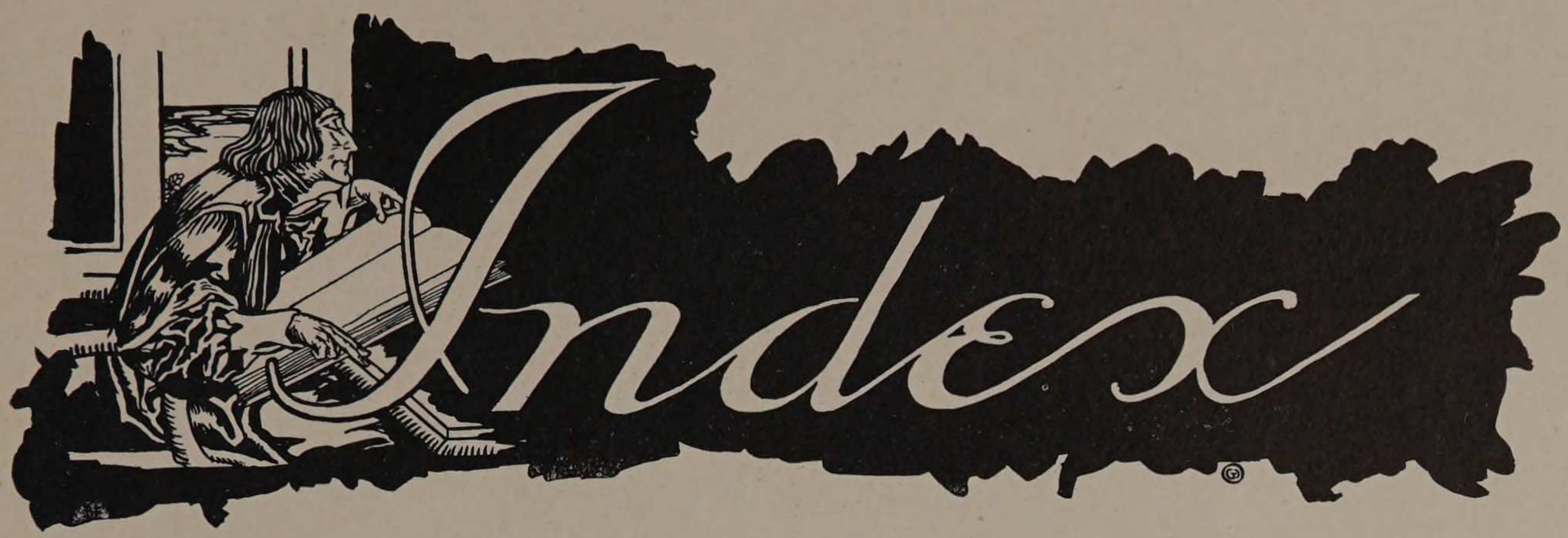
THE EVENING CLASSES provide courses in engineering and kindred subjects for those employed during the day.

Summer Term, June 25 to August 3, 1906

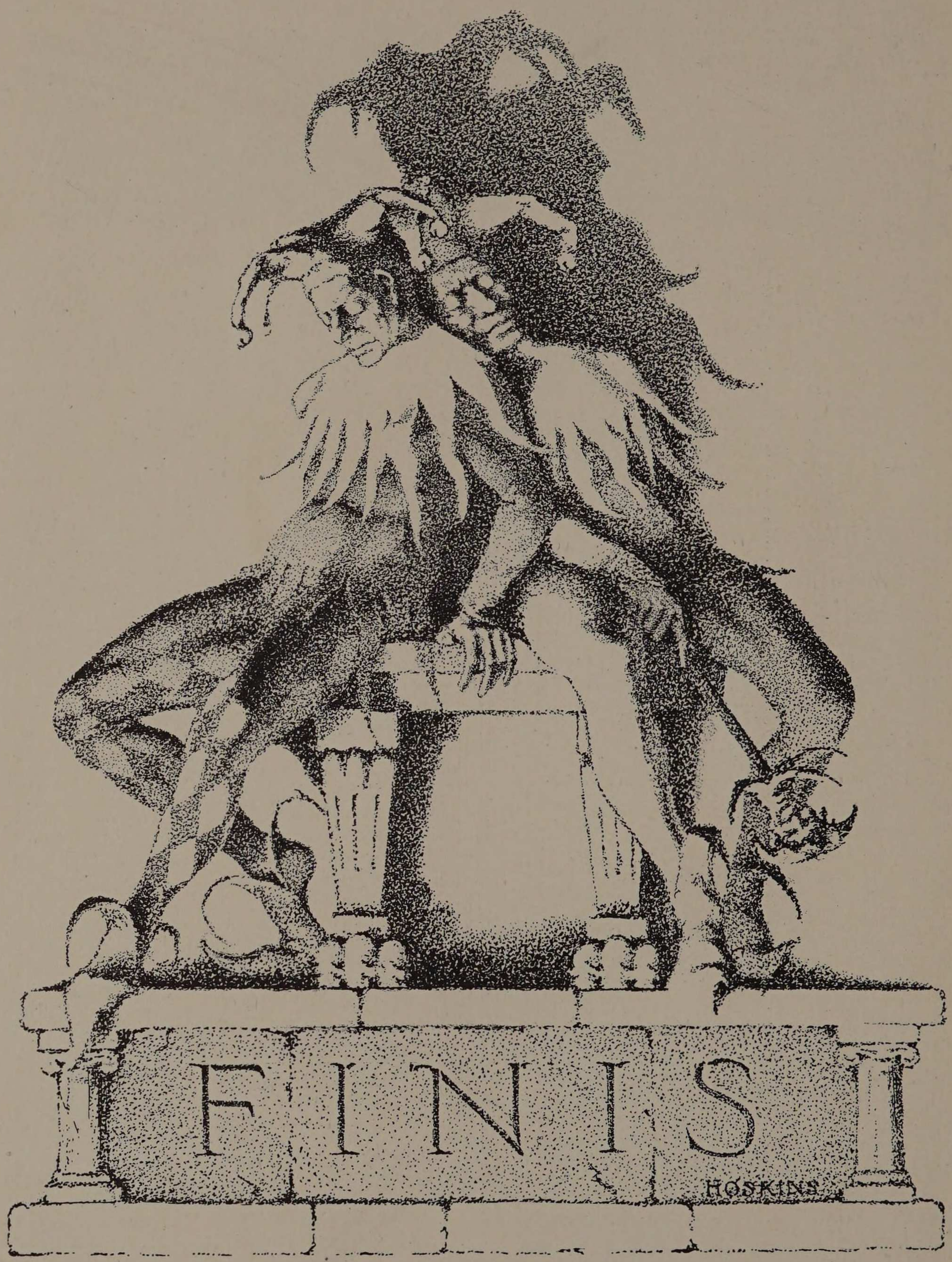
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